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243
THIRTY-THIRD
ANNUAL CATALOGUE

NORTHRUP KING & CO'S

STERLING SEEDS

1917

Hennepin Ave. at First Street

MINNEAPOLIS, MINNESOTA

Northrup, King & Co., Seedsmen, Minneapolis, Minn.

Northrup, King & Co.'s Seven Brands.

These seven brands illustrated herewith are trade-marks which have been adopted for the protection of our customers. They are not merely names and symbols but represent real standards of quality. You can rely on all these brands when you purchase seeds and poultry feed, as the reputation of Northrup, King & Co. is behind each one of them.

They are only used to brand seeds which have been carefully tested in our laboratory as explained on page 2.

To avoid sowing doubtful quality seed on your land and to receive real value for your money, it is always good judgment to purchase seeds of these brands.

"REG. U. S. PAT. OFF."

This set of abbreviated words indicates that the trade-mark in connection with which it is used, has been "Registered in the United States Patent Office," at Washington. Northland, Viking, Lincoln Oats, Giant Fodder and Elephant Fodder have all been registered in this way.

It is contrary to law for any firm or individual to use one of these trade-marks without our permission. Don't be imposed upon. You can procure any of the above brands either from us direct or from dealers selling our seed, providing that our stock is not sold out.

Sterling Brand.

Our Sterling Bag Trade-Mark is used to brand those varieties of vegetable and flower seeds which we can especially recommend to our customers. A variety so marked will be found the best of its kind in every instance. We use this method to designate our specialties.

It is also used on grass and field seeds including Clover, Alfalfa, Timothy, Millets, Red Top, Blue Grass, Seed Grains, etc.

Sterling Brand Seeds are for those who want the best. Unexcelled for purity, germination, plumpness and color. Sold only in sealed bags. Look for the Sterling Trade-Mark.

Northrup, King & Co.'s Sterling Brand Seeds have proved by careful test superior in purity, germination, productiveness and hardiness. They comply in every respect with the pure seed laws of all states. See pages 137, 138 and 139 for further information about this brand.

Northland Brand.

This is applied to many varieties of grass and field seeds, especially Clover, Timothy, Millets, Alfalfa, Blue Grass, Red Top and some Seed Grains. The name seems especially appropriate when one realizes that a large part of this seed is raised here, in the North, where plant life attains its greatest hardiness and vigor.

Northland Brand Seeds are the greatest value for a reasonable price, of uniformly superior quality, carefully selected for high purity and strong germination. The Northland Goose is on every bag.

Viking Brand.

This is also a field and grass seed trade-mark and will be quoted on all our price lists and catalogues. See page 137 for the application of Viking to grass seed.

Viking Brand Seeds are lowest in price, consistent with dependable quality. Strictly recleaned and tested for purity and germination. Every bag branded with the Viking Ship.

Lincoln Oats.

This name has been used since 1893 and the tremendous demand for these oats which has developed since then, proves the great popularity of this brand. See page 111 for complete information in regard to Lincoln Brand Oats.

Giant Fodder Corn.

This name has been a standard one for years among experienced dairymen who appreciate the heavy tonnage of fodder which this variety produces.

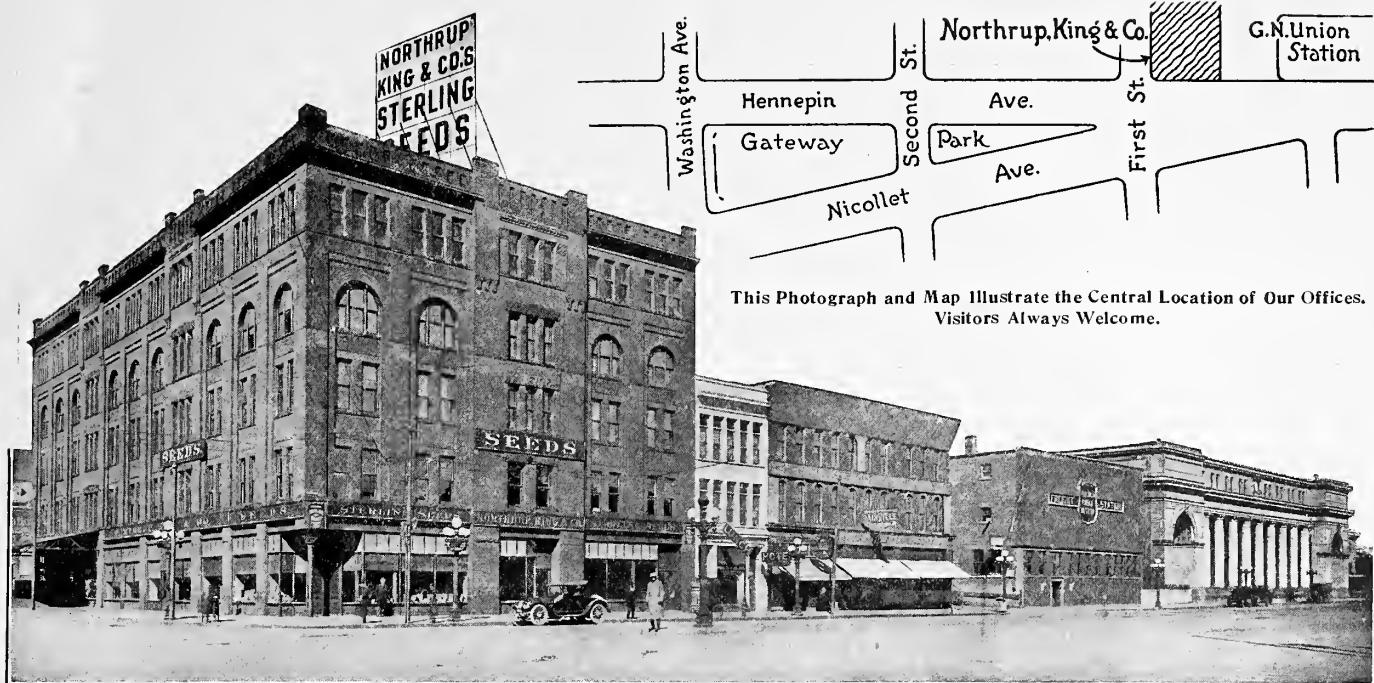
Giant Fodder is recommended as the leading Southern Fodder variety. It excels all others in yield per acre. The slender stalks and abundance of leaves make this Corn an enormous yielder of valuable forage. The full description will be found on page 130.

Elephant Fodder Corn.

This brand has become famous as the King of Medium Dent Fodder Corns. It grows tall, is exceedingly leafy and forms good sized ears freely, even in the North. For feeding value it is unsurpassed. Full description and prices on page 131.

Sterling Brand Poultry Feeds.

Sterling Brand Feeds represent the same superior quality as Sterling Brand Seeds and are for those who want the best. Sterling Poultry Feeds are unexcelled for purity, feeding value and careful preparation. They are economical to use because they contain only good, clean materials mixed in the proper proportions to make balanced rations for your birds at every age. See page 156.



Our Main Building at Hennepin Ave. and First St., the Fourth One to the Left of the Great Northern Union Station in the Photograph.

Sterling Seeds for 1917.

General Information and Suggestions to Customers.

Garden and Flower Seeds. Unless otherwise noted, all Garden and Flower Seeds are sent prepaid by us except pound lots or more of Peas, Beans and Sweet Corn. The last three items will be sent by parcel post if postage is added at parcel post rates named below. On Peas, Beans and Corn in larger quantities than quarter pounds mailed to Canada, add 12c per pound to cover postage.

Grass and Field Seeds. All Grass and Field Seeds, Onion Sets and Potatoes are shipped only at purchaser's expense by express or freight, as ordered. Prices quoted in this catalogue are F. O. B. Minneapolis. Small quantities of Grass or Field Seeds sent by parcel post if postage is added at parcel post rates.

Parcel Post Rates. All seeds, plants and roots now come under the rates named below, providing the package weighs over eight ounces. On eight ounces or less the rate is one cent for each two ounces regardless of distance; on seeds over eight ounces the pound rates apply. All goods except seeds, bulbs, roots and plants take pound rates on packages weighing over four ounces. On four ounces or less, rate is one cent per ounce, regardless of distance. Poultry supplies, fertilizers, garden tools, etc. have weight named so that postage may be readily estimated. No goods will be sent postpaid unless full postage is allowed. Insecticides and other poisons cannot be mailed.

Express or Freight. At prices quoted we deliver seeds to any Express or Railroad Depot in Minneapolis. On everything quoted by the 1/4 bu., bu., or 100 lbs., purchaser in every instance is to pay the transportation charges. Plants and nursery stock are sent by express unless postage is allowed.

Important. When sending money to cover cost of postage allow for weight of box or packing material. For example, allow for two pounds' postage on one pound of Beans or other seed as the package when ready for mailing will weigh over one pound.

Plant Shipping Dates. In general, the following apply, but exact date may vary with the season. Trees, Shrubs, Vines and Roses are shipped by express or freight during April. Orders should reach us in March. Strawberry plants, April 25th to May 15th. Peonies, Iris, Phlox and other perennials—April and May. Gladioli, Dahlias and Summer Flowering Bulbs, April 1st to July.

Geraniums, Cannas, Asters and other bedding plants May 15th to July 10th. In the locality of Minneapolis, Cannas and Geraniums should not be set out before Memorial Day. Vegetable plants, April 15th to June 1st, see page 90. Plants are sent by express unless postage is allowed.

Our Responsibility. We consider that we are under obligation to fill every order as promptly as possible. If we cannot fill your order for any item, we will at once return the money sent for same. We will not keep your money without adequate returns to you, send you due bill or substitute something you do not want.

As to our financial responsibility, we refer you to any bank or banker, or the commercial agencies in Minneapolis.

How to Send Money. Money can be sent safely either by P. O. order, bank draft, express draft, express order or registered letter. If your order amounts to \$1.00 or more it is best to send by one of the above methods.

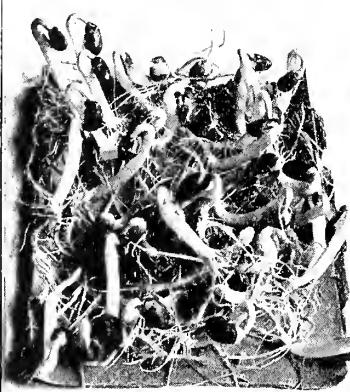
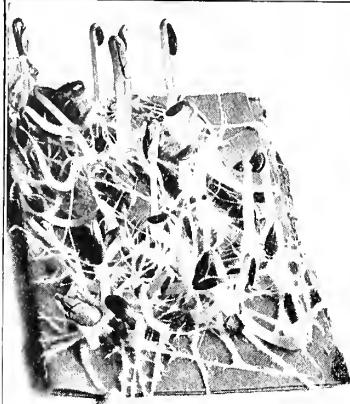
Disclaimer. As seeds, plants and bulbs are subject to climatic and other conditions over which we have no control, after once being placed in the ground, therefore, Northrup, King & Co., give no warranty, express or implied, as to description, quality, productivity or any other matter of any seeds, plants or bulbs they send out and they will not be in any way responsible for the crop, and every order for articles named in this catalogue will be executed on these conditions only. If the purchaser does not accept same on these terms they are at once to be returned.

Parcel Post Rates. See Order Sheet For Zone Number.

Local Postage	1	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-29	30-31	32-33	34-35	36-37	38-39	40-41	42-43	44-45	46-47	48-49	50
Zone 1 and 2 Miles	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
150 Miles	5c	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Weight	1 lb.	2 lbs.	3 lbs.	4 lbs.	5 lbs.	6 lbs.	7 lbs.	8 lbs.	9 lbs.	10 lbs.	11 lbs.	12 lbs.	13 lbs.	14 lbs.	15 lbs.	16 lbs.	17 lbs.	18 lbs.	19 lbs.	20 lbs.						
Zone 3 300 Miles	6c	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44						
Zone 4 600 Miles	7c	11	15	19	23	27	31	35	39	43	47	51	55	59	63	67	71	75	79	83						
Zone 5 1000 Miles	8c	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	1.04	1.10	1.16	1.22						
Zone 6 1400 Miles	9c	17	25	33	41	49	57	65	73	81	89	97	1.05	1.13	1.21	1.29	1.37	1.45	1.53	1.61						
Zone 7 1800 Miles	11c	21	31	41	51	61	71	81	91	1.01	1.11	1.21	1.31	1.41	1.51	1.61	1.71	1.81	1.91	2.01						
Zone 8 Over 1800 Miles	12c	24	36	48	60	72	84	96	1.08	1.20	1.32	1.44	1.56	1.68	1.80	1.92	2.04	2.16	2.28	2.40						

For Index of this Catalogue See Page 160.

NORTHRUP, KING & CO., SEEDSMEN,
MINNEAPOLIS, MINNESOTA.



TESTING SEEDS INDOORS FOR PURITY AND GERMINATION.

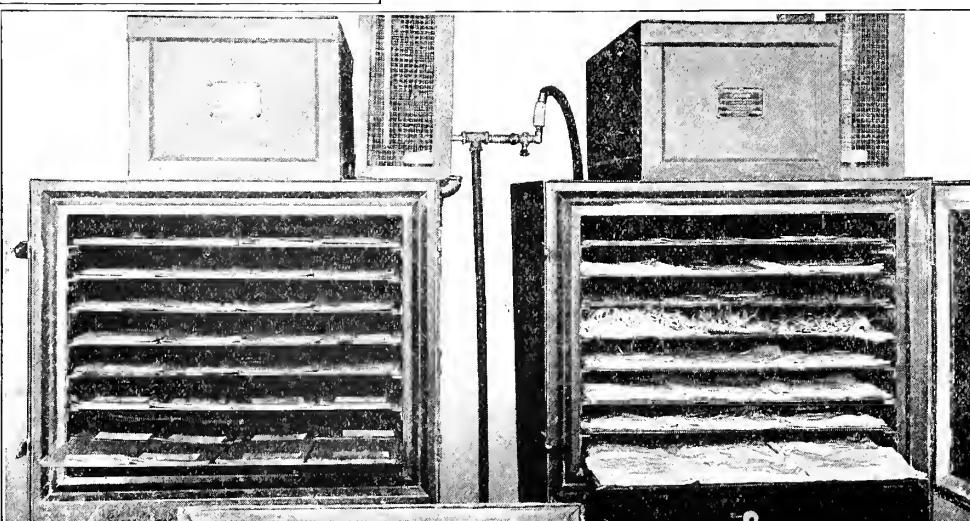
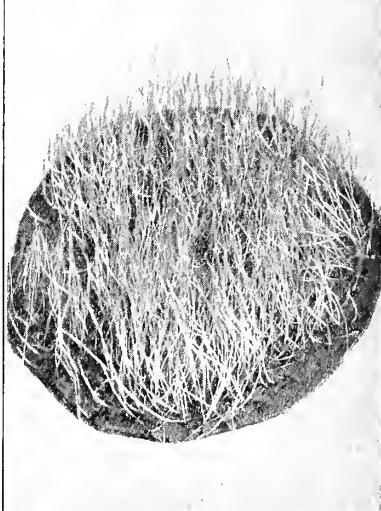
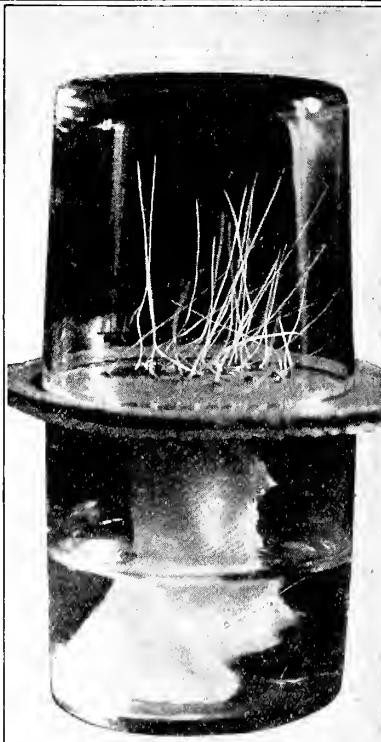
Long before Pure Seed Laws were passed in the northwestern states, we had established a standard to which our Sterling Brand Seeds must conform. Our seed laboratory was organized in 1897 and we have enjoyed ever since the reputation for furnishing in our Sterling Brand the highest quality of seeds possible to obtain.

The illustration above shows a portion of our seed testing department. This is in charge of a graduate seed analyst who is fully competent to test all seeds both for purity and germination. With the aid of powerful magnifying glasses and delicate scales he is enabled to ascertain accurately, the purity of every lot of seed we handle. Each sample is carefully numbered and corresponds with the original lot in our warehouse. After the test is made, record is entered in our books and we are enabled at any time to trace the origin and ascertain the purity and germination of the seed filled on every order passing through our hands.

The germinators which we use, shown in the illustration below, are duplicates of those in the United States Department of Agriculture at Washington, D. C. and in many State Experiment Stations. They give us accurate tests. Several methods are followed. Some are placed in blotters, others in damp cloths, while still other samples, such as Blue Grass, must be germinated in bell jars, as indicated in the illustration at the right.

Our seed laboratory is an example of the painstaking care which is exercised throughout our business. Every order, large or small, is given careful attention in every detail. Every shipment of grass and field seeds which leaves our hands will be tagged showing purity and germination. Tags are attached to every bag whether the law requires it or not, so that you may know the record of the seed before it is placed in the ground.

Your confidence in Sterling Seeds will not be misplaced. It is worth much to know that the seeds you sow are capable of producing satisfactory results.



Northrup, King & Co.'s

Sterling Seed Case

At your Dealer's.

This illustrates one of the Sterling Seed Cases each of which contains an assortment of the leading kinds of vegetable and flower seeds suitable for the vigorous climate of the North. Every packet holds a liberal quantity of fresh, tested seed.

Dependable Quality.

You are assured of dependable quality by the name, "Northrup, King & Co." and the Sterling Trade Mark on each package. The case may be identified by the bright blue and yellow labels. Every case is returned to us at the end of the selling season and all packages are torn up. Each dealer is sent a new supply of seeds in the Spring.

Convenience.

These cases will be found in the stores of merchants in almost every community in the thirteen states tributary to Minneapolis. The many thousands of dealers who sell our seeds make it convenient for seed buyers to purchase everything required in the seed line.

Assortment.

The varieties of seeds offered in our up-to-date cases are very carefully selected for the different localities which our boxes reach. The assortments of both flower and vegetable seeds include generous lots of the most popular sorts and limited quantities of varieties which are not in such great demand. For example, we always include a great many packets of the leading varieties of tomatoes, cabbages, and sweet peas, but fewer packets of pepper, pumpkin and sweet alyssum.

Selecting varieties is easy because of the illustrations in colors, true to nature, and the short, accurate descriptions. Cultural directions are printed on the back of each package.

Any Seeds Procurable.

It is, of course, impossible to include in this case packages of every variety listed in this catalogue. Your merchant can get for you, quickly, any kind or quantity of our seeds which he may not have in stock—no matter the size of your requirements—one packet or a carload.

This applies to everything offered in this book. If for any reason your merchant will not obtain our seeds for you, send your order to us and we will see that you are promptly supplied.

Varieties For Succession.

You may have a continual supply of flowers and vegetables all through the season by selecting varieties that will be ready at different times, some early, some during midseason and others, late.

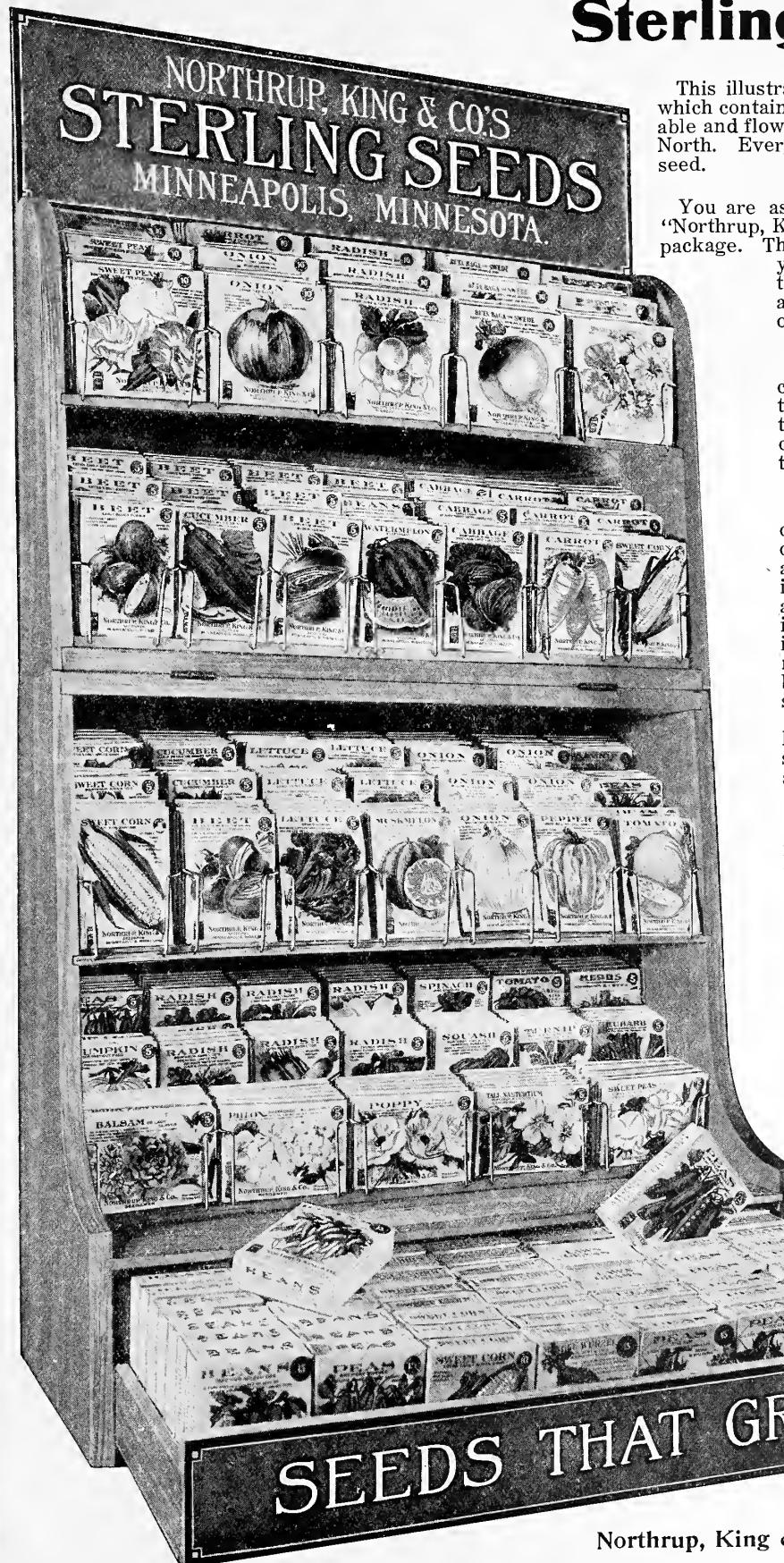
For early flowers—Bachelor Buttons, Sweet Alyssum, Sweet Peas and Poppies are popular. Midseason sorts—Nasturtiums, Marigolds, Petunias, Pinks, Snapdragons and Verbenas; late varieties—Asters, Zinnias and Cosmos make a good display for flower beds or cutting.

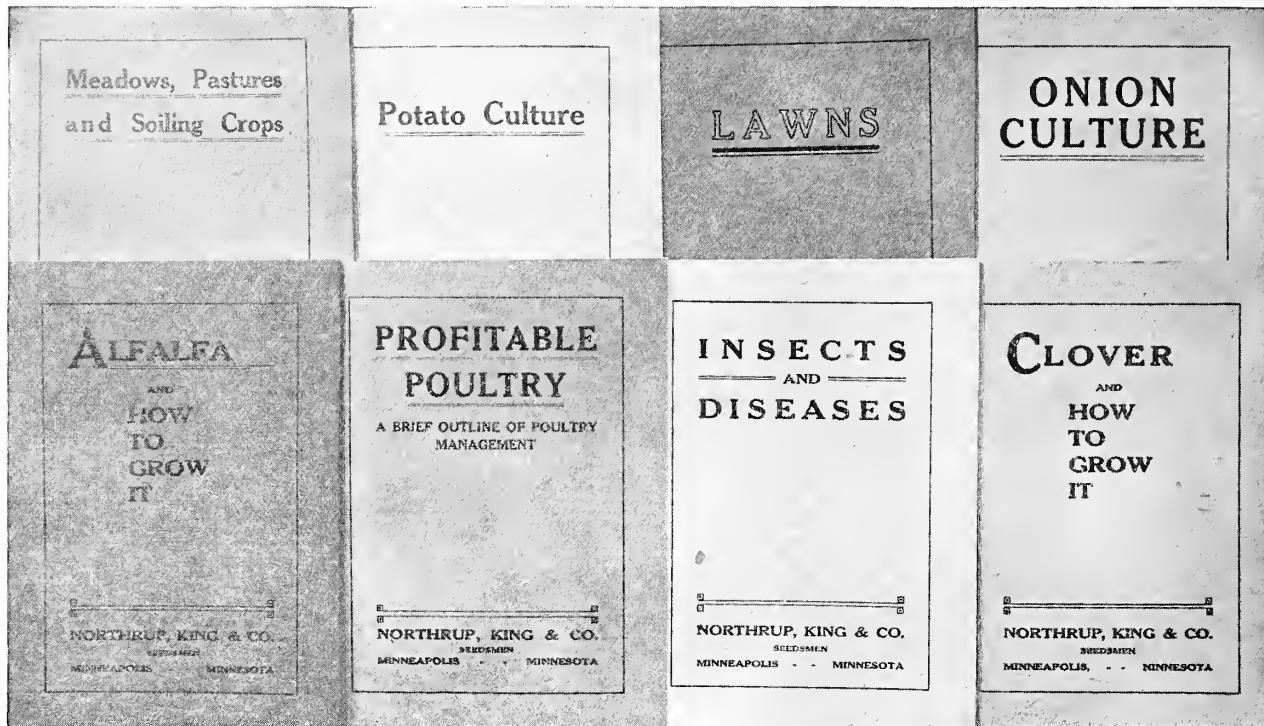
There is a way by which you can enjoy your favorite vegetables for weeks instead of for only a few days.

Use varieties which mature in succession, such as round and long Radishes, dwarf, medium, and tall Peas, etc., The Sterling Seed Case contains all these varieties.

SEEDS THAT GROW

Northrup, King & Co.'s Sterling Seed Case





Our Library of Sixteen Booklets for the Successful Farmer and Gardener.

DO YOU WANT BOOKLETS ON LIVE TOPICS?

"Alfalfa." Seeding, cultivating, harvesting and feeding this valuable crop.
 "Cabbage Growing." Seeding, transplanting, cultivation, harvesting, etc.
 "Clover." Handles this subject in concise, though complete manner.
 "Field Corn." Deals particularly with Corn growing in the North.
 "Hand Book for the Garden." Culture for vegetables, flowers, shrubs, etc.
 "Insects and Diseases." Deals with the control of insects and diseases.
 "Lawns." How to build a new lawn, repair old lawns and keep a lawn green.
 "Meadows, Pastures and Soiling Crops."
 "More Pork Profits." The care and feeding of swine, including pasture crops.
 "Onion Culture." Treats on every phase of this subject.
 "Potato Culture." Of value to all potato raisers, for market or home use.
 "Profitable Poultry." Feeding and care of poultry from baby chick to laying hen.
 "Quack Grass and Other Weeds." Explains control or elimination.
 "Root Crops." Carrots, rutabagas, mangels, sugar beets, etc. for stock feed.
 "Silage and Silos." A treatise on growing, handling and feeding silage.
 "Vine Crops." Culture of tomatoes, cucumbers, melons, strawberries, etc.

Our sixteen booklets on the above subjects may tell you many things you already know; they are also quite sure, we think, to tell you some things

that you do not know. If they give you just ONE IDEA that will save you labor or increase your profits, it is well worth your while to read them.

Our Offer. The regular price of these booklets is ten cents each. We will, however, send *if requested*, a booklet free with orders for each of the articles on which the booklets treat. With an order for Field Corn, we will send a booklet on "Field Corn for the Northwest"; with an order for Poultry Feed or Supplies, we will send a booklet on "Profitable Poultry"; also with an order for Onion Seed, a booklet on "Onion Culture" and so on through the list. To those who wish to obtain the booklets immediately, we make the following special offer to get them into the hands of users of seeds early in the season. We will send any one booklet, postpaid, for 5 cents; any seven booklets for 25 cents, or the entire set of sixteen will be mailed, postpaid, for only 50c. To make this offer stronger, if on the receipt of the booklets you are not entirely satisfied with the investment, keep the booklets and we will promptly and without question refund the money paid for same. These booklets, while not pretentious, contain information that you will find valuable; that is why we want you to read them.

INFORMATION AND SERVICE BUREAU.

For many years past, we have been in the habit of replying, more or less fully, to a great many thousands of inquiries which have come to us by mail, on subjects pertaining to farming, gardening, mixtures of grasses for various purposes, varieties best adapted for local conditions and many other items on agriculture, horticulture and floriculture. Many of these queries require much more information than can conveniently be given in a letter, but in such cases we either send a booklet which will furnish the desired material or will refer the customers to a book or books where it may be obtained.

Our large organization is composed of over two hundred persons. Many have long been connected with this business and have gained a fund of valuable knowledge and information. Others have come from houses

long established in the seed business in the older countries of Europe. Each is especially fitted and trained in his own particular line. Having this corps of experienced men we are in a position to disseminate accurate and timely suggestions without cost to our customers and in no way incurring obligation.

We therefore urge those desiring assistance or advice to correspond with us and we will gladly give all the information in our power, within the reasonable bounds of a letter. Please write inquiries on a sheet of paper separate from your order, so that it may not interfere with prompt shipment of your order. We also have issued a series of booklets on timely subjects which are listed above. These will be sent free with orders as stated, or may be secured very reasonably. Money refunded if not satisfactory.

Features of Especial Interest to be found in this Catalogue.

Not content with making this catalogue a mere price list, we have tried to include as many cultural notes and helpful suggestions as possible, so it will be a complete book of reference for farmers and gardeners.

Every farmer will enjoy what is said about "Alfalfa", "Sterling Silo Corn," "Sudan Grass," "Marquis Wheat," etc.

The Market Gardeners will be interested in "Golden Bantam Corn," "Northern Grown" "Onion Sets," "Peas" and "Beans" as well as "Minnesota Red, Yellow and White Globe Onions."

Flower lovers will find the many cultural directions helpful, particularly those for Sweet Peas, Perennial Seeds, Gladioli and Phlox.

Those who wish to improve their home grounds will find practical suggestions among the tree, shrub and hardy plant pages. We call particular attention to the excellent special offers on many pages. For example—Shrubs, Apple Trees, Peonies, Sweet Peas, Dahlias, Gladioli, Phlox and Cannas, have been grouped in small and large collections, suitable for the owner of a small place or a large estate.

Hints on the care of berries will interest the fruit grower.

Poultrymen may obtain valuable information regarding the raising of chicks, the feeding and care of hens from the poultry pages.

For these reasons we hope our customers will not discard this catalogue after making out their orders, but will preserve it for reference during the growing season or for the guidance and information of their friends.

Arrangement of Departments in this Catalogue.

Vegetable Seeds. Arranged in alphabetical order. Pages 11 to 59.

Flower Seeds. Annuals, Pages 60 to 77; Perennials, Pages 78 to 85.

Hardy Plants including Peonies and Iris. Pages 86 to 89.

Roses, Fruits, Trees and Shrubs. Pages 94, 95, 101 to 110.

Bulbs, Dahlias, Vegetable and Flowering Plants. Pages 90 to 93, 96 to 100.

Grass and Field Seeds, Grains and Forage Crops. Pages 111 to 148.

Insecticides, Poultry Supplies and Sundries. Pages 149 to 160.

What Our Trade Mark Means.

Our Sterling Bag Trade Mark is used to brand only those varieties of seeds which we can especially recommend to our customers. A variety so marked will be found the best of its kind in every instance. We use this method to designate our specialties.

Sterling Brand Seeds are for those who want the best. Unexcelled for purity, germination, plumpness and color. Look for the Sterling Trade Mark.





A Beautiful, Smooth, Velvety, Green Lawn is Certain Through Sowing

Northrup, King & Co.'s "Sterling" Lawn Grass Seed

Sold only in Sealed Bags.

ANALYZED AS TO PURITY := TESTED AS TO GERMINATION



Northrup, King & Co.'s Sterling.

A smooth, velvety lawn surrounding a house adds not only to the value, but enhances the enjoyment of every home, whether it be in city, town or country. When properly made, a lawn is as satisfactory as any investment a home owner can make.

A lawn may be made in two ways, by sodding or by sowing seed. Sodding is not only very expensive, but unsatisfactory as well. Sods are ordinarily taken from a pasture or along the roadside and almost invariably contain weed seeds and coarse, tufty grasses which appear after the lawn is made. Seeding is not only more economical but is attended with better results.

The most important thing to consider in selecting seed for lawn grass is to obtain a proper mixture of several varieties, for two reasons. First, each variety is at its best during a certain part of the season. By properly choosing early, medium and late grasses, a smooth, even, green lawn is assured from early Spring to late Autumn. Second, a given area can support only so many grass plants of one kind for they all absorb the same sort of food, but if several varieties are sown, the same area will support many more plants, as different sorts live on various elements in the soil. This will give a much thicker and more luxuriant turf all over the lawn.

With these facts in mind our Sterling Lawn Grass Seed is scientifically combined. Our experience of many years has given us an intimate knowledge of grasses, their habits and requirements. In our Sterling Lawn Seed are included the best varieties—pure, clean and free from foul seed.

Our Sterling Lawn Seed is very quick in growth and is ready for mowing in from six to eight weeks from the time the seed is sown.

From early Spring until late in the Fall, lawns sown with our Sterling Lawn Seed remain green and fresh, for the reason, that this mixture includes quick growing varieties which are at their best soon after the frost is out of the ground, others that mature and flourish in Midsummer, and still others that are greenest and sturdiest in Autumn. For each of these seasons there are several different varieties living on different elements in the soil, so that one is certain always to have a satisfactory carpet of green wherever our Sterling Lawn Seed is sown, under favorable conditions.

Strangers visiting Minneapolis, frequently comment upon the beauty of its lawns, both in the public parks and about the homes of the residents. Our Lawn Grass Seed is used very extensively, not only in our own city, but in all parts of the United States, and the demand for it is increasing every year. Our Lawn Seed is used on golf courses, tennis courts, croquet lawns, athletic fields, in parks, cemeteries and private grounds, with unvarying success. A brand of Lawn Grass Seed, such as our Sterling Mixture, which gives perfect satisfaction for these requirements is bound to insure a fine, beautiful, velvety turf around any well cared for residence.

Not only is Sterling Lawn Seed suitable for making new lawns, but it is equally valuable for quickly renewing old, worn-out areas.

Our BOOKLET ON LAWNS tells how to build new lawns, how to repair old lawns, and how to keep lawns green. We will mail one of these booklets free to any one on request, or it will be sent with every order for

Board of Park Commissioners

Minneapolis, Minn.

COMMISSIONER PHILIP FREIGHTON	THOMAS VOGELI, VICE-PRESIDENT	WILLARD F. REEDER	MAURICE P. KETCHUM
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		HARRIS B. CRANE	DAVID B. JONES
			THOMAS VOELKE

Commissioners

November 20, 1913.

Northrup, King & Co., Seedsmen,
Minneapolis, Minn.

Gentlemen:-

It is with considerable pleasure that I write you concerning the satisfactory results we obtained from the lawn grass with which you supplied us this past season. In addition to repairing many wornout and barren spots, we seeded down large areas which were entirely new last spring and summer. The seed grew quickly and formed a heavy, green sward in less than eight weeks from sowing.

Purity and germination tests of samples showed your seed to be remarkably free from foreign or foul weed seeds and the growth was quick and even. I can conscientiously state that the grass seeds supplied by you have been in every way highly satisfactory and I do not hesitate to recommend seeds of such excellent qualities to all who need them.

Yours truly,

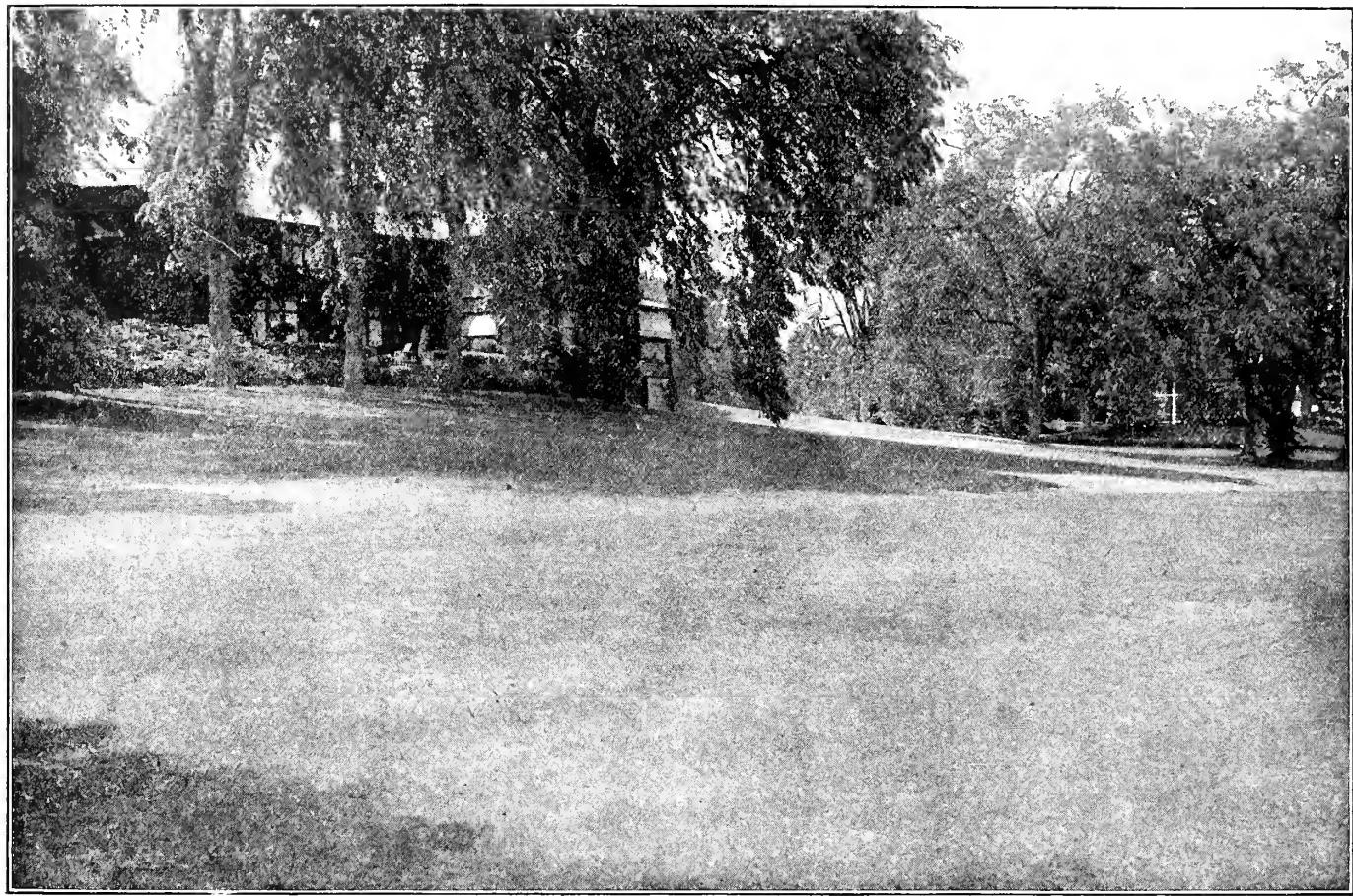
BOARD OF PARK COMMISSIONERS

Northrup, King & Co.
Sup't

TW-AD

Lawn Grass Seed, without extra charge. Our Sterling Lawn Seed is free from chaff, being especially recleaned, and therefore less bulky than seed not so well prepared. A pound of Sterling Lawn Seed will seed a much larger area than will a pound of the cheaper mixtures. In making a new lawn one pound of Sterling Lawn Seed will sow 350 square feet.

Price of Northrup, King & Co.'s Sterling Lawn Grass Seed, Lb., 30c; 10 lbs., \$2.75; 20 lbs., \$5.50; 25 lbs., \$6.75; 50 lbs., \$13.00; 100 lbs., \$25.00; by express or freight at purchaser's expense. If wanted by parcel post add for postage at parcel post rates.



Northrup, King & Co.'s Shady Place Mixture.

(Sold only in sealed bags.) On almost every lawn there are shady places where difficulty is experienced in getting grass to grow. These bare spots are very unsightly and disfigure the lawn. In such places proper seeding may be all that is required. In this mixture we have combined fine, dwarf growing, evergreen varieties which do well in sheltered or shaded spots. Some varieties of grass require more sun than others, therefore if the kinds which need the least sun are selected, those sorts when sown in shady places will thrive and make a good appearance. Frequently a shady lawn, which is at the same time insufficiently drained, becomes affected with moss and coarse, bog grasses. In such cases an application of slackened lime at the rate of forty to fifty pounds to each thousand square feet is an excellent remedy; but the moss should be first removed with a sharp rake. When this is done, sow our Shady Place Lawn Mixture, which will bring greenness to the bare

spots and restore the beauty to your lawn. Of course, very densely shaded places are quite hopeless and no variety of grass can be made to flourish under such conditions.

Price, Lb., 35c, 10 lbs., \$3.25, 20 lbs., \$6.50, 25 lbs., \$8.00, 50 lbs., \$15.50, 100 lbs., \$30.00, by express or freight at purchaser's expense. Bags free. If wanted by parcel post add for postage at rate on page one.

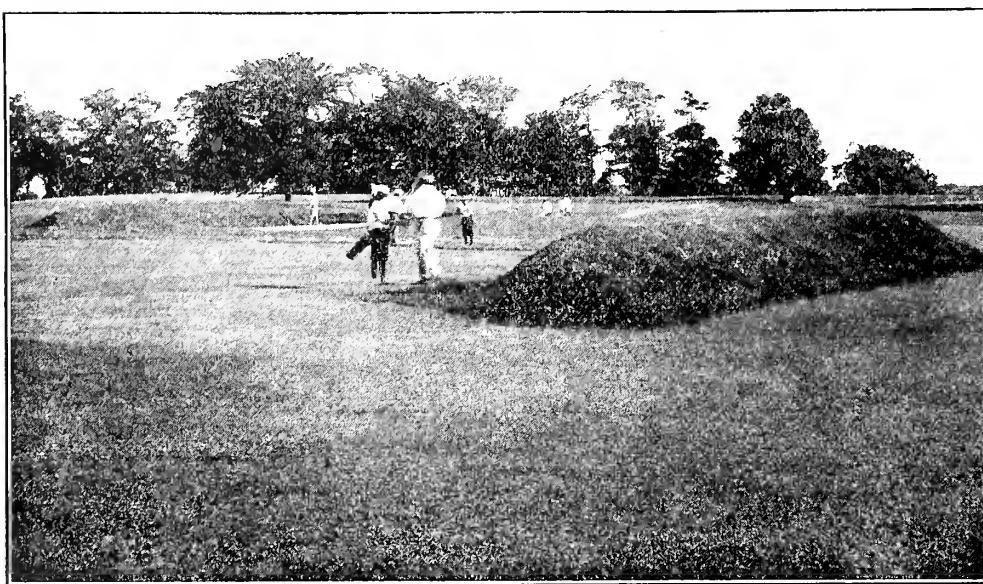
Nurse Crops For Lawns.

Kentucky Blue Grass is the basis of all good grass seed mixtures and the one which will eventually, occupy the land. It is very slow to germinate, frequently lying in the soil 5 to 6 weeks before sprouting. On this account we advise the general use of nurse crops. For this purpose we recommend oats, medium red clover and winter rye, to be used according to the suggestions below. For the fall nurse crop use winter rye.

Nurse crops are especially desirable when a lawn is sown very late in the Spring and there is danger that the hot sun will dry up the soil and burn the grass seedlings before they become well started. Under these conditions either oats or medium red clover are useful. Oats produce shade more quickly, but medium red clover is more attractive and also enriches the soil. Medium red clover is also valuable for improving vacant lots, boulevards, or wherever a good effect is desired at slight expense.

Sterling Garden and Lawn

Fertilizer. An excellent lawn dressing containing the proper plant food to stimulate the grass into luxuriant growth. This is especially valuable in early Spring to fertilize the bare places before sowing seed. See page 154 for complete directions. Prices: 5 lbs., 30c; 10 lbs., 50c, 25 lbs., \$1.00, 50 lbs., \$1.75, 100 lbs., \$3.00, 500 lbs., \$12.50, 1000 lbs., \$25.00, F. O. B. Minneapolis.



Partial View of Minikahda Golf Links, Sown with our Fair Green Mixture. See page 7.

Grass Seed Required.

Quantity For New Lawns.
 1 lb. for 350 square feet.
 3 lbs. for 1050 square feet.
 5 lbs. for 1750 square feet.
 10 lbs. for 3500 square feet.
 100 to 125 lbs. per acre.



Northrup, King & Co.'s Putting Green Mixture Is Composed Entirely of Dwarf Growing, Evergreen Grasses Which Make a Firm, Durable Turf.

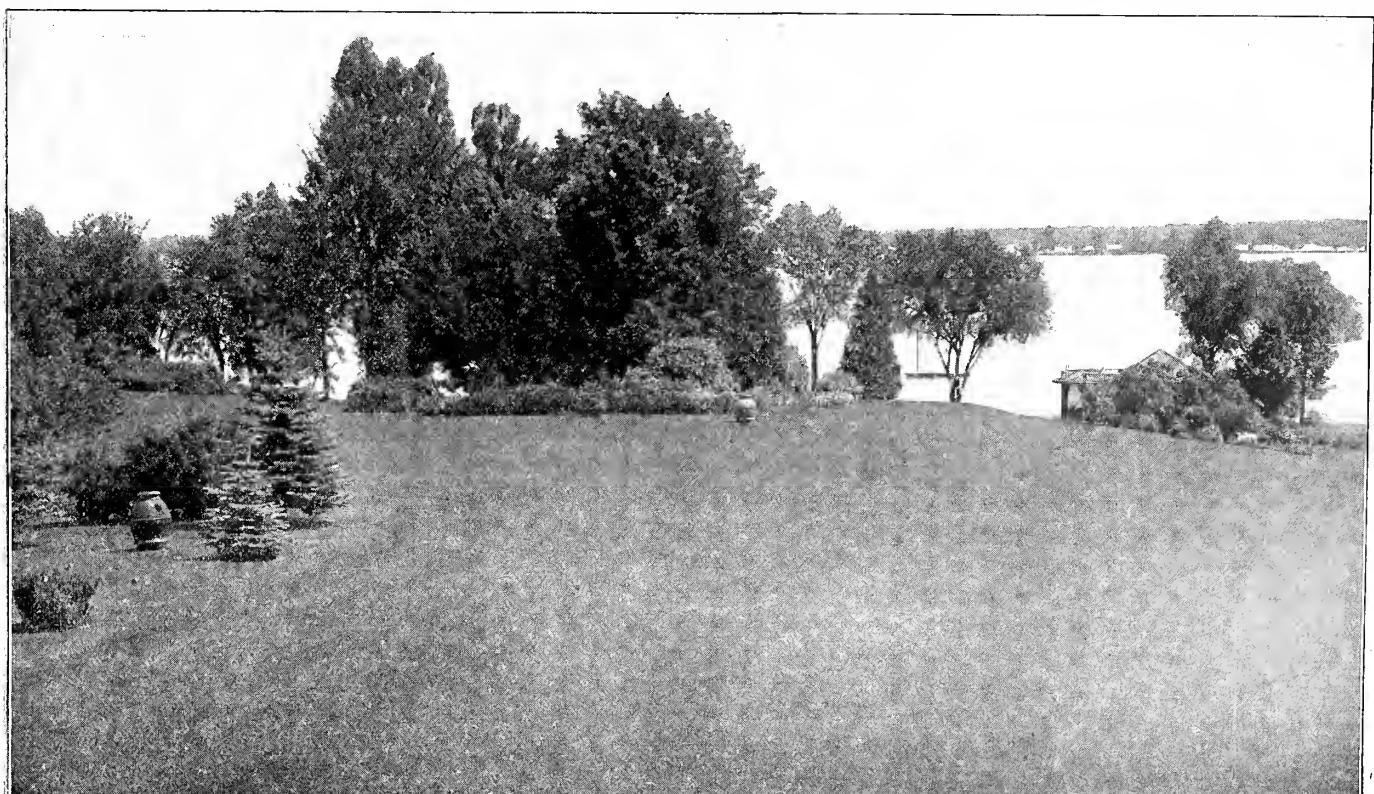
Northrup, King & Co.'s Terrace Mixture.

(Sold only in sealed bags.) The secret of a fine sward for terraces lies in obtaining grasses which root deeply and spread so as to make a heavy mat of sod. To keep such sod in first-class condition, the grass should not be cut too often nor too closely. Give it a chance to grow strong and tough. Let the food which the grass blades get from the air, dew and rain, work down to strengthen the roots. This mixture is suited for sowing on terraces, embankments and hillsides, preventing heavy rains from washing them out, and withstanding drought and exposure, produces at the same time a velvety, luxuriant turf of especially fine appearance.

To keep the terrace looking well, it is important that the grass plants should always be healthy and vigorous. Sterling Garden and Lawn Fertilizers, Bone Meal and Sheep Manure are splendid for the purpose. See page 154 for complete information. Some years ago, at the time the Minneapolis Industrial Exposition Building was opened, the grounds were terraced to the street. The management was anxious to have the grounds look as well as possible, but was in a quandary as to the terrace. We supplied them with our Terrace Mixture six weeks before the Exposition opened, with the result that at the end of that time the terraces looked as though they had been established for several years.

Price. Lb., 35c; 10 lbs., \$3.25; 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00; by express or freight at purchaser's expense. If wanted by parcel post, add for postage at rate on page one.

See Red Figure Price List for present values of Kentucky Blue Grass, Clovers and Red Top, Etc.



The Beautiful Lawns of Minneapolis and Along the Shores of Lake Minnetonka, Now Famous Throughout the United States, Have Been Established With Sterling Lawn Grass Seed.

Lawn Restoring Grass Seed.

In the Spring of the year there are, in almost every lawn, thin or bare spots which were caused by ice or exposure during the winter months. These may be very quickly renewed by an application of this mixture which is made up of those varieties of seeds which will rapidly grow and occupy ground before weeds obtain a foothold. A spotted lawn may thus be made uniform and beautiful at slight expense. Price, Lb., 35c; 10 lbs., \$3.25; 20 lbs., \$6.50; 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00; by express or freight at purchaser's expense. If wanted by parcel post, add for postage at rate on page one.

Fair Green Mixture.

Golf courses require a mixture of grass seed which will give a smooth, level, compact turf. Our long experience in the mixing of grasses enables us to select those best adapted for this purpose. This seed was sown on the Minikahda Club's golf course, pronounced by professional players to be the finest sward in the country. Price. Lb., 30c; 10 lbs., \$2.75; 20 lbs., \$5.50; 25 lbs., \$6.75; 50 lbs., \$13.00; 100 lbs., \$25.00, by express or freight at purchaser's expense. If wanted by parcel post, see rates on page 1.

Putting Green Grass Seed.

A superior mixture of deep rooting grasses, of fine fibrous character, forming a strong, durable turf. Excellent for croquet or bowling greens, tennis lawns, putting greens or other places where a durable, fine sward is desired. Present value. Lb., 35c; 10 lbs., \$3.25; 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00, by express or freight at purchaser's expense. If wanted by parcel post, add for postage at rate on page one.

SWEET PEAS

Northrup, King & Co.'s New Giant Orchid-Flowering or Spencers

Spencer Sweet Peas under favorable conditions, show a strong, healthy growth. The plants attain a height of six to nine feet, requiring a six inch space for full development. The blossoms are of immense size, measuring 2 to $2\frac{1}{2}$ inches across, with 3 or 4 on a stem. They are beautifully formed with huge standards, open and upright and immense wings gracefully poised. Both standards and wings are delicately waved.

"The President."

The most brilliant, rich, dazzling orange-scarlet Sweet Pea in existence, equal in color to the Oriental Poppy, a robust grower, producing in abundance, flowers of largest size and best form, perfectly placed on stout stems, 16 to 18 inches long. Packet, 30 seeds, 25c. "Horticultural Advertiser" says:—"The President was the star of the lot, a glowing orange-scarlet, almost self, plenty of size and substance."

J. B. R. in "Nurseryman and Seedsmen," says:—"The President was simply glorious. It is head and shoulders above anything of a similar color."

Alex. Malcolm, the noted Scotch raiser of new Sweet Peas, says:—"One thing is certain, it will be in every garden where Sweet Peas are grown, unless the grower is color-blind."

"Fiery Cross."

Fiery Cross is the famous Sweet Pea for which the originator received \$417.00 per ounce or \$1.39 per seed.

Fiery Cross has all the appearance of live fire, the color being a scorching fire-red, or scarlet, without any shading and which scintillates and glitters in bright sunlight, thus adding a glowing, fire-like sheen which radiates over the flower. Unlike most of the orange-scarlet varieties, it does not scorch or burn even during extended periods of intense sunshine, therefore it can be grown in all soils without shading. The beautifully waved and fluted flowers are borne freely in threes and fours, well placed on long, stout stems.

Packets containing 30 seeds each, per packet, 25c.

"King White."

Undoubtedly the best white now in cultivation.

Too much cannot be said in praise of this unique new white Spencer. It has all the first-class qualities which go to form Sweet Pea perfection. It is remarkable for the "glistening immaculate purity of the whiteness," and the perfect finish of the flower. While of truly gigantic proportions, the flowers are most exquisitely finished in every detail.

KING WHITE is indispensable in every up-to-date amateur's collection. Pkt., 15c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

Sweet Pea Culture.

Preparation of Soil. Prepare a trench 2 feet deep and at least $1\frac{1}{2}$ feet wide. Fill in with a mixture of rich loam and well rotted barnyard manure or 5 lbs. of sheep manure and $1\frac{1}{2}$ lbs. of bone meal for each 8 feet of row. Cover with 6 inches of good soil. The manure should be worked in deep down and carefully mixed through the soil at bottom of trench.

The trench should slope gradually towards the center, which is to be 2 inches deeper than the sides.

Planting. Should be done the first day the soil is dry enough to work without becoming sticky. If the soil is worked while wet it may ruin the crop.

White Seeded Sweet Peas should not be sown until the ground has thoroughly thawed. Sweet Peas require a long period of slow growth under cool conditions which are necessary for good root formation. Late sown Sweet Peas, especially when planted after May 15th are seldom worth while. Sow 1 lb. of seed for 100 feet of row.

Make a furrow in the center of trench 6 inches wide and 3 deep. Sow the seed in this furrow in two rows, 4 inches apart and 2 inches apart in the row. Cover with about an inch of fine soil and tamp down firmly. If soil is damp and heavy tamp more lightly than if dry and loose. After tamping, rake another inch of soil over seed. Do not cover seed more than 2 inches deep altogether.

Cultivation. When vines are 5 inches high, fill up the 4 inches between the rows with fine soil, drawing the soil to each side, covering the vines to within an inch of their tops. Do not cover up the vines entirely. Straighten any crooked plants and remove weeds. After the vines have grown another 5 inches repeat the operation; at this time hump up the soil outside the rows to a level with the soil around the vines, so that what was originally the trench becomes a ridge.

Supports. Never allow vines to fall over, as they can not be properly straightened afterwards, but support with brush, wire netting or strings.

Mulching. Before blooming time fill trench between the rows with straw or grass clippings. This will keep the soil cool and moist.

Watering. Sweet Peas like plenty of water in dry weather. After blooming begins, fill the trench between the rows with water two or three times a week, if there is a lack of showers.

Tiling. Growth and bloom of Sweet Peas will be increased if a line of 3 inch porous drain tile is placed a few inches beneath the trench. By bringing this to the surface with an elbow, water may be readily applied to the roots.

Cutting. Should be attended to every day, whether you have use for the flowers or not. If seed pods are allowed to form, the vines will soon cease blooming. In the afternoon or early evening is the best time for cutting. The flowers being then fully developed and hardened, last much longer in water.

It is only necessary to cut each day the flowers that are fully developed. It is after forming seed pods that they injure the vines.

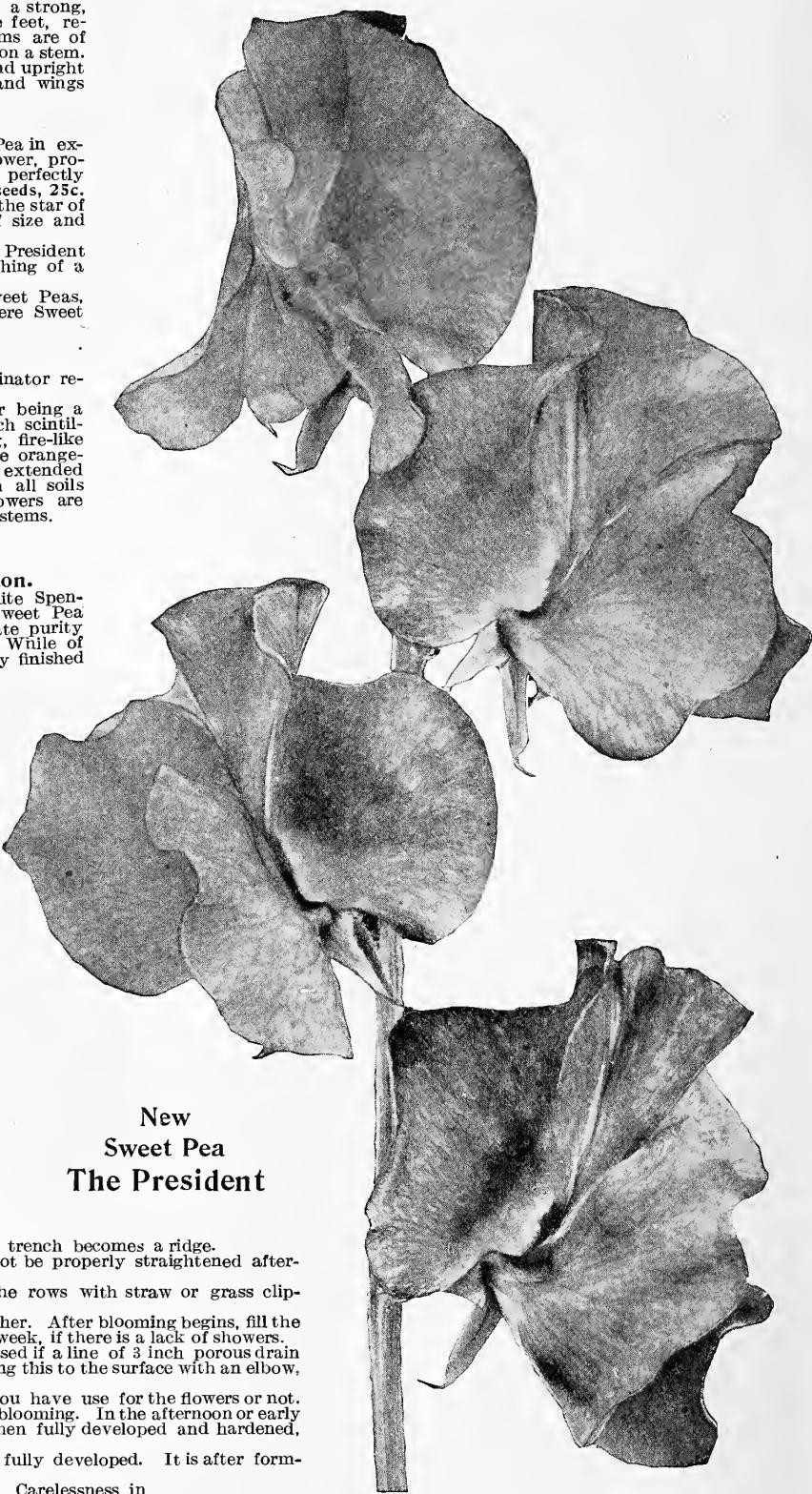
Be careful in cutting not to disturb or break the vines. Carelessness in this will soon ruin them.

It is best not to step too near the vines when picking the flowers as this would pack the soil surface, which should be kept loose and open.

Enemies. For slugs and cut worms a little air-slacked lime around the young shoots will protect them more or less and sometimes the worms can be attracted and killed by putting a bunch of green grass dipped in Paris Green near the Sweet Pea row.

For plant lice or aphids use "Black Leaf 40," Nico-Fume Liquid or some other tobacco extract spray. See page 149 for insecticides.

Sow 1 lb. of seed for 100 feet of row.



New
Sweet Pea
The President

Nitragin for Sweet Peas.

Sweet Peas belong to the legume family and cannot flourish unless they have plenty of bacteria on their roots. These bacteria are necessary to furnish the plants nitrogen, which is one of the important plant foods. Where Sweet Peas have been grown before there will probably be sufficient bacteria in the soil but in other places these may be lacking and Nitragin should be used to supply them.

Nitragin is easy to use. It will not replace other fertilizers, but will help you raise more vigorous, healthier Sweet Peas. Price, garden size can, each 30c.

SWEET PEAS

Northrup, King & Co.'s Selection of Spencer or Orchid=Flowered Sweet Peas for 1917.

The following varieties represent the most beautiful of all Sweet Peas to date, the greatest advance in Sweet Peas in a decade. We urge all Sweet Pea lovers to plant our superb Spencer or Orchid=Flowered Sweet Peas this Spring.

We are satisfied that the newer Spencer Varieties of Sweet Peas are not yet fully appreciated in the United States. The supply of seed of the sorts which we offer below is still very limited but when the seed stock increases and they become better known they will be far more popular, as they show the greatest advance in Sweet Peas in a decade.

Both in colors and size they represent the latest triumphs of the plant breeder's skill. In these will be found the richest shades from apricot pink to silvery blue, ivory white to royal purple.

We trust all our customers will try a few of these beautiful selections this year, that they may enjoy in their own gardens, the Sweet Peas which at home and abroad have received high awards at many Sweet Pea exhibitions.

NAMED VARIETIES—SPENCERS.

2835. Barbara. Beautiful rich salmon-orange self. Pkt., 15c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

2837. Blanche Ferry Spencer. Rose standard, white wings, tinted light pink. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

2840. Constance Hinton. A new white, fine large flower, black seed-ed. Pkt., 15c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

2842. Dainty Spencer. Creamy white, with pink edge. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c.

2844. Dobbie's Cream. Beautiful primrose colored flowers, nicely waved. Can also be described as a rich cream. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

2846. Elfrida Pearson. One of the best light pinks, a strong grower. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c.

2848. Empress Eugenie. Light gray, flaked with lavender. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

2850. Hercules. Giant pale rosy pink. This shade will please the most fastidious. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

2852. Illuminator. Brilliant salmon pink, very rich color. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

2854. King Edward Spencer. The best pure red Spencer, large flower. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

2856. King Mauve. Largest waved mauve. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

2858. Lady Evelyn Eyre. Blush pink, flushed salmon, white ground. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

2860. Lavender George Herbert. Very fine bluish lavender. Strong grower, giving long stems and plenty of flowers. Pkt., 15c; oz., 35c.

2862. Margaret Atlee. We consider this one of the most beautiful Spencers. Very fine apricot on cream. Pkt., 15c; oz., 35c.

2864. Margaret Madison. Clear azure blue, tinted mauve. A large, perfect Spencer and a lovely shade. Pkt., 15c; oz., 35c; $\frac{1}{4}$ lb., \$1.25.

2866. May Unwin. We consider this variety the finest orange scarlet. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

2868. Mrs. Cuthbertson. White wings, standard rose pink; a fine large pale bi-color. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

2870. Mrs. C. W. Breadmore. Buff ground, edged with pink. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

2872. Mrs. Hugh Dickson. Pinkish apricot on a cream ground, strong grower. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

2874. Mrs. W. J. Unwin. White flaked with orange scarlet. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

2876. New Miriam Beaver. Shell salmon pink. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

2878. Nubian. Very fine, deep chocolate color. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

2880. New Helen Pierce. Marbled blue on white. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

2882. R. F. Felton. A large and beautiful lilac lavender, wings suffused with French gray. A robust grower and produces some wonderful flowers. Pkt., 15c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

2884. Robert Sydenham. Rich glowing orange salmon. Pkt., 15c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

2886. Rosabelle. A very large and rich bright rose. A vigorous grower. A grand and very effective variety. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

2888. Royal Purple. A very fine royal purple color, strong grower. Pkt., 15c; oz., 50c.

2890. Senator Spencer. Claret and chocolate stripe, on heliotrope ground. A large flower and very distinct. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

2892. Sincerity. One of the finest Spencers ever raised. A beautiful deep glowing cerise. No other variety can approach it in its color class. Pkt., 15c; oz., 50c.

2894. Vermilion Brilliant. A large and fine brilliant scarlet of splendid form. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

2896. Wedgewood. Bright silvery blue. The best blue. Pkt., 15c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

SPENCER SWEET PEA COLLECTIONS.

2900. "Columbia" Collection 25c.

One packet each of three varieties of Spencers, in three distinct colors—red, white and blue, our selection; 3 packets for 25c, postpaid.

2902. "Spencer Sextette" Collection 50c.

One packet each of six superb Spencer varieties in separate colors for 50c, postpaid.

2904. "Customer's Choice" Collection \$1.00.

One packet each of any ten varieties of Spencer Sweet Peas on this page, customer's selection; 10 packets for \$1.00, postpaid.

2906. "Dollar" Collection \$1.00.

One packet each of twelve beautiful varieties of Spencer Sweet Peas offered on this page, our selection; 12 packets for \$1.00, postpaid.

2908. "Minnetonka Gems" Collection \$3.25.

One packet each of the 31 varieties of Spencer Sweet Peas on this page; 31 packets for \$3.25 postpaid.

2910. "Exhibition" Collection \$3.75.

A rare opportunity for Sweet Pea lovers to secure a marvellous assortment of the choicest new varieties of Spencers.

One packet each of 31 varieties of Spencer Sweet Peas, also one packet each of "The President," "Fiery Cross" and "King White" for \$3.75, postpaid.

An average
spray of
"Fiery
Cross"



Northrup, King & Co.'s Sweet Peas.

Named Grandifloras.

This is the well known type which has been grown for many years. It comprises two forms, "hooded or shell-shaped," and "open". The Grandifloras are most easily grown and are always popular.

We will furnish the following varieties at the uniform price of 5c a pkt., 15c an oz., 40c for a $\frac{1}{4}$ lb., \$1.25 a lb.

WHITE.

3032. Dorothy Eckford. Finest white; very large, grand substance.

YELLOW.

3048. Hon. Mrs. E. Kenyon. Clear buff-yellow, spreading flowers.

PINK AND ROSE SHADES.

3050. Apple Blossom. Crimson pink. Very fragrant, profuse bloomer.

3058. Janet Scott. Deep pink, tinged buff, strong grower.

3070. Miss Wilmot. Deep orange-pink; shaded with rose. Is a plant of very tall, strong growth and exceptional fragrance.

3074. Prima Donna. Lovely pale pink; the leading pink variety of the type; teurils colored.

3075. Prince of Wales. Bright Rose.

RED STANDARD, WHITE WINGS.

3078. Extra Early Blanche Ferry. The popular pink and white. Bloom profuse, lasting well on the plant; sunproof.

LAVENDER.

3100. Lady Grisel Hamilton. Pale lavender-blue. The best of its color in this type. Moderately vigorous in growth.

SHADES OF RED.

3084. King Edward VII. Bright crimson. This variety represents the acme of crimson-scarlet varieties of the open or the hooded form.

3087. Queen Alexandra. Nearest pure scarlet. Flowers two to three on long strong stems.

3092. Sunproof Salopian. Clear scarlet. This variety is not subject to burning under hot suns.

BLUE AND PURPLE SHADES.

3106. Brilliant Blue. Richest navy blue. The best dark blue of this type. The same as Lord Nelson.

3114. Flora Norton. Beautiful bright blue. Small flower but excellent as a garden variety on account of its unusual color.

3115. Helen Pierce. Pure white, mottled blue. Distinct. One of the indispensable varieties for a complete collection.

3117. Mrs. Walter Wright. Deep mauve. Continuous bloomer. Sunproof.

3124. Aurora. Flaked orange-salmon. This variety and Dorothy Eckford represent the perfection of the hooded form.

MAROON.

3128. Black Knight. Very deep maroon, large size and open form. One of the darkest varieties and the best of its color in this type.

Northrup, King & Co.'s Waved or Unwin Sweet Peas.

This class of Sweet Peas is similar to the famous Spencers, but the blossoms are smaller and frequently of rather heavier texture. They exist in many colors, but we list only the most popular. Both standard and wings are wavy and nicely formed. They seed more freely than Spencers and are for that reason less expensive, but still are higher in price than the Select or Grandiflora type.

3006. Frank Dolby. A large, fine, light lavender, with bold wavy standard and widely spreading wings, beautifully fluted. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

3007. Gladys Unwin. Lovely light pink. A bold flower, crinkled and waved. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

3019. Nora Unwin. Beautiful pure white, finely waved or fluted. A very effective flower of good substance. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

Grandiflora Sextette Collection.

1 packet each of 6 Grandiflora varieties in separate colors for 25c, postpaid.

Dorothy Eckford, white. King Edward VII, red. Lady Grisel Hamilton, lavender. Miss Wilmot, deep orange pink. Prima Donna, pink. Black Knight, maroon.

Grandiflora Collection A.

One packet each of the 18 varieties of Grandifloras listed above for 75c, postpaid.

Grandiflora Collection B.

One ounce each of the 18 varieties of Grandifloras listed above for \$1.75, postpaid.

Northrup, King & Co.'s Twelve Bouquet

Gems. 50c, postpaid. This beautiful collection contains one packet of each of the 12 choicest large flowered, fragrant sorts; borne on long stems, embracing the cream of our Grandiflora list. We also offer one ounce of each of the twelve Bouquet Gems for \$1.25, postpaid.

3021. Gold Medal Spencer Sweet Peas Mixed.

This is a combination of many very beautiful Spencers or Giant Orchid Flowering Sweet Peas of recent introduction and will prove a real treasure in its great range of rich colors and shades. Pkt., 100 seeds, 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50, postpaid.

3150. Northrup, King & Co.'s Sterling Mixture.

The finest and most desirable mixture possible to put together. The acme of richness and beauty, matchless in combinations of colors and giant sweet scented flowers. Every color of the rainbow and an almost unlimited variety of shades, tones and combinations of colors, striped, splashed, mottled and margined. Nothing seems to have been forgotten. It is made up regardless of expense, the aim being to secure in this mixture the largest flowering sorts and the widest possible range of colors. Without doubt this mixture reaches perfection. It is our aim to constantly improve, when possible, by adding new varieties as they are introduced. We include the magnificent Spencers, the superb Unwins and the always popular Grandifloras; a mixture, in fact, of which any one may be proud. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00, postpaid.

3155. Eckford's Large Flowering Mixed. elegant mixture embraces the introductions, including the recent novelties of Mr. Eckford, the Sweet Pea specialist of England, who has accomplished more than any other individual in bringing the Sweet Pea to its present state of beauty, size and perfection. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00, postpaid.

3160. Choice Mixed. This is a most excellent mixture, embracing all the standard varieties and many colors. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00, postpaid.

3165. Cupid Dwarf or Bedding Mixed. Sown as a border they form a line of emerald green foliage a little over a foot wide and from 5 to 6 inches high, and from June until late summer are literally a sheet of bloom and from the fact that they cover the ground so closely they are not so likely to suffer from drought as the tall sorts. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50, postpaid.

3170. Northrup, King & Co.'s Giant Orchid Flowering or Spencer Mixture.

Spencer varieties of Sweet Peas have come into general favor so rapidly that the demand has been large for all Spencer sorts in mixture. We have included in this combination nearly all of the Spencers, making it a rare and lasting pleasure to the grower. The vines are strong, healthy and vigorous in growth and produce in wonderful profusion, long and strong stemmed flowers of great beauty, size, perfect form and coloring. Those preferring to grow all sorts together, rather than separate colors, will find this unsurpassed. Pkt., 100 seeds, 10c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00, postpaid.



A Fine, Well Grown Row of Sweet Peas.



Artichoke Roots.

ARTICHOKE 5. Green Globe.

The seed may be sown indoors and plants potted same as the Tomato and set out in the garden on approach of warm weather; or the seed can be sown in hills outside, and thinned out to one plant in a hill. Plants should be set in rows three feet apart and two to three feet apart in the row. Grown for the unripe flower heads, which are highly esteemed by epicures. Large pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

Artichoke Roots.

Extremely valuable food for hogs. Every hog raiser should plant them. After one acre is planted their value will be so appreciated that larger areas will be devoted to them. They are not only very healthful, but as a fattening agent are excellent. They yield very heavily, 300 to 350 bushels to the acre being realized on good soil. It is not necessary to dig them for, if given an opportunity, the hogs will help themselves.

Not only are they valuable for hogs, but are an excellent food for cattle, sheep and horses. Fed to milch cows, they are almost equal to bran for the production of milk because of their succulence.

Artichokes need planting but once and little or no culture after the first year. Cut as potatoes, only smaller, plant in rows three and one-half feet apart. Plow deep, plant shallow, say two inches. The second year, break up the ground as for corn, they will come up thickly all over the surface. Run through each way with a cultivator when a few inches high.

Those wishing to purchase should place orders very early, to be shipped as soon as favorable weather arrives. By freight or express at purchaser's expense. 1 lb., 15c; 2 lbs., 25c; 5 lbs., 50c; 10 lbs., 75c; 25 lbs., \$1.35; 50 lbs., \$2.50; 150 lbs., sufficient for one acre, \$7.00.

If wanted by parcel post add 10c per lb. to cover extra cost.

ASPARAGUS SEED

Culture. To start the Asparagus bed from seed, sow 1 oz to 50 feet of row in early Spring, and transplant to permanent bed the next year as outlined above.

One pound of seed will produce about 3000 sprouts, and should be sown in a light, rich, sandy soil in rows about 15 inches apart and 1½ inches deep; sow thinly enough so the plants will not stand closer than 1½ or 2 inches and those should be thinned by hand afterwards, to about three inches apart, care being taken to leave the strongest and most thrifty shoots.

Careful weeding and hoeing are required throughout the growing season. Watering between the rows with liquid manure is of great assistance to the young plants.

10. Bonvallet's Giant.

The quickest yielding, (a year ahead of seed of other sorts) heaviest producing, finest quality and most disease-resisting of any variety; in color, white with purple tip. Market gardeners are discarding other well known sorts in favor of this variety. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

15. Columbian Mammoth White.

Gives immense yield of clear white roots. A most distinct and valuable variety. The shoots remain white, without earthing or artificial blanching, as long as fit for use. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

20. Conover's Colossal.

A standard sort, color deep green, quality first-class, spreads less than other sorts. Yields from 15 to 30 sprouts from a single plant. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

22. French Giant Argenteuil.

A splendid, vigorous variety that grows very large, the stalks sometimes weighing four ounces each. This is a very prolific variety and forms the greater part of the fine bundles admired in the Paris markets.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

25. Palmetto.

Mammoth in size, light green, regular in growth and appearance. Usually ready for market before other varieties. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Note. All flower and vegetable seeds are sent prepaid except where noted.

Book on Vegetable Gardening. By S. B. Green. A manual on the growing of vegetables for home and market. A thorough and practical guide to vegetable gardening. 265 pages. Price, cloth, \$1.00; paper covers, 50c, postpaid.

ASPARAGUS ROOTS

Culture. The easiest way to obtain an Asparagus bed, is to set out roots. It takes 3 years to secure one from seed, but with our large, strong roots a bearing bed is obtainable in 2 years.

Asparagus Roots thrive best in soil exceptionally rich and mellow and supplied with a liberal amount of humus. A simple way to start the Asparagus bed is to plow furrows 7 inches deep and 3 to 4 feet apart, according to the richness of the soil, then set the plants, which should be at least one year old, (two-year-old are better) in the trench, allowing 12 to 18 inches between them; spread the roots out well and cover with two inches of soil. After cultivation, gradually fill up the trench, eventually burying the crowns of the plants to a depth of 6 inches.

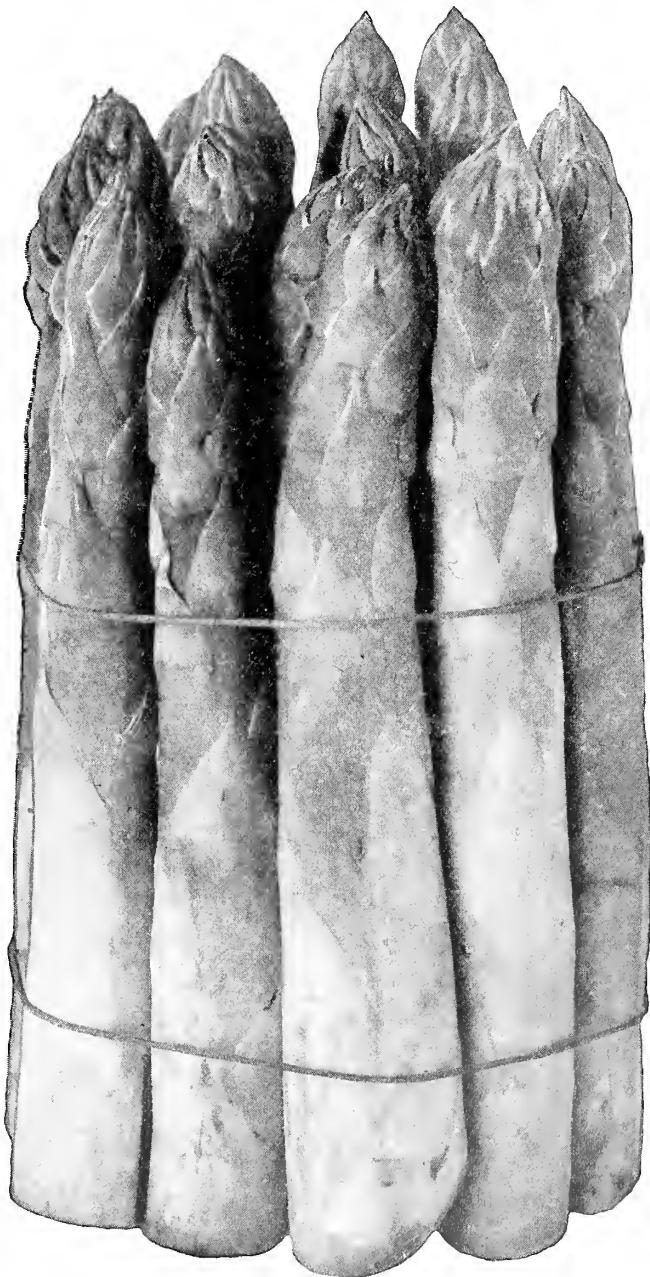
Cultivate shallow and frequently the first season and as soon as the stalks are dead in the Fall, remove them and cultivate the entire surface of the bed to a depth of 4 inches, then very early in the Spring to a depth of 3 inches and again the latter part of June, working into the soil at this time a liberal supply of decomposed stable manure.

By express or freight at purchaser's expense. By Mail.

	100	1000	100, postpaid.
Barr's Mammoth. Large, green stalks.	\$1.00	\$8.50	\$1.50
Bonvallet's Giant. White, fine quality.	1.25	10.00	1.75
Columbian Mammoth White.	1.00	9.00	1.50
Conover's Colossal. Standard green.	1.00	8.50	1.50
French Giant Argenteuil. Superb flavor.	1.00	9.00	1.50
Palmetto. Mammoth light green.	1.00	8.50	1.50

It is best to send Asparagus Roots by express by which method they will arrive in first class condition. We offer large, strong roots, which produce satisfactory results.

Roots are put up in bunches of 50 each. 50 at 100 rate, 250 at 1000 rate.



Asparagus.

At the following prices on Beans, packets and quarter pounds are sent prepaid, all larger quantities are shipped at purchaser's expense; if wanted by parcel post, add postage at rate on page one.

Note. The supply of Beans in all sections of the country is the shortest in many years due to unfavorable weather conditions, consequently the stock of most varieties is very limited.

Culture. Do not plant them until the ground becomes dry and warm.

Bush Beans may be planted about 2 inches deep in drills from 24 to 30 inches apart according to variety and soil, placing the seed 3 inches apart or 4 seeds in hills 24 inches apart each way; 2 lbs. per 100 foot drill.

Cultivation should be frequent until the plants begin to bloom, but only when the foliage is dry, for if disturbed when wet the vines will rust.

DWARF WAX VARIETIES

30. Currie's Rust Proof Black Wax. A very early, beautiful wax Bean, bearing an abundance of crisp, tender, stringless pods, free from rust. It is of excellent quality, delicious flavor. Seed kidney-shaped. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 45c; 5 lbs., \$2.00.

35. Davis Kidney Wax. The most hardy and productive wax Bean. The pods are long, white, straight, crisp and tender. The vine is rustless and very vigorous, bearing the pods in clusters. Seed kidney-shaped and white. For canning this is unexcelled on account of the purity of the pod and Bean. Pkt., 5c; $\frac{1}{4}$ lb., 20c; lb., 50c; 5 lbs., \$2.25.

40. Improved German Black Wax. Vines medium sized, vigorous and hardy. Pods medium length, curved, cylindrical, fleshy, of a clear yellowish white. Remain for some time in condition for use. Seed small, black. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 45c; 5 lbs., \$2.00.

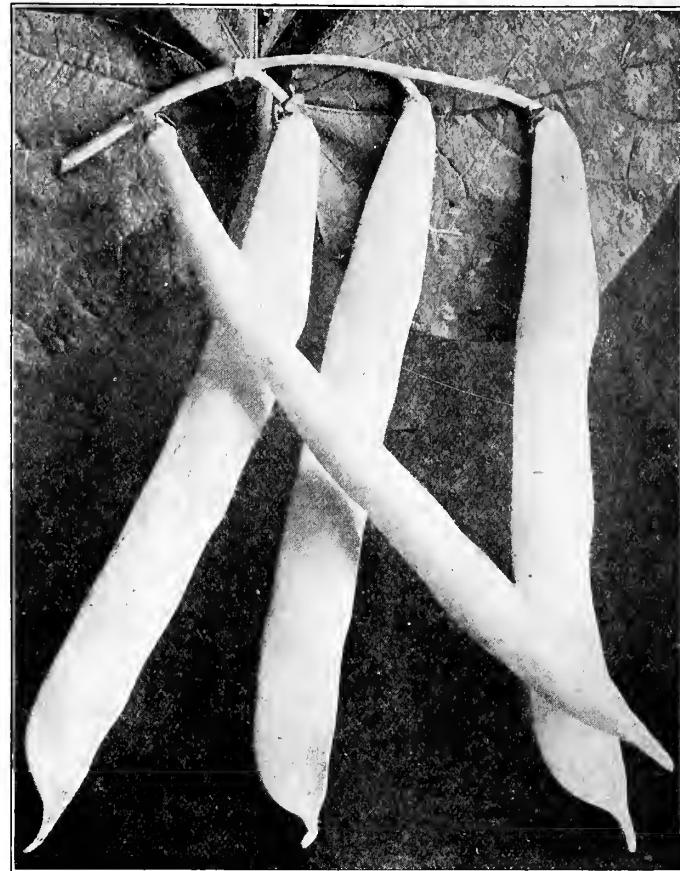
42. Challenge Black Wax. Early, pods tender and stringless, seeds black. Pkt., 5c; $\frac{1}{4}$ lb., 20c; lb., 50c; 5 lbs., \$2.25.

44. Pencil Pod Black Wax. Pods are long, pencil-like; very tender and brittle. In color they are rich, dark yellow. Pkt., 5c; $\frac{1}{4}$ lb., 20c; lb., 50c; 5 lbs., \$2.25.

45. Improved Golden Wax. The plants are hardy and bear an abundance of straight, broad, flat pods. Resist rust to a marked degree. Seed white, with brown or black markings near the eye. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 45c; 5 lbs., \$2.00.

55. Wardwell's Kidney Wax. The strong vines yield abundantly, long, nearly straight, broad, creamy white pods. They are of fine quality and a fine variety for the market gardener. Matures a little later than the Golden Wax. Seed large, kidney-shaped, white with dark markings about the eye. Pkt., 5c; $\frac{1}{4}$ lb., 20c; lb., 50c; 5 lbs., \$2.25.

57. Refugee Wax. A superior Bean for home use. Pods long, round and yellow; are thick meated, perfectly stringless; of excellent flavor. Pkt., 5c; $\frac{1}{4}$ lb., 20c; lb., 50c; 5 lbs., \$2.25.



Currie's Rust Proof Black Wax Beans.

DWARF OR SNAP, GREEN POD VARIETIES

60. Bountiful. The plant is very handsome and of sturdy growth, being practically immune to rust and mildew. It is very hardy, early and prolific and continues in bearing for several weeks. The pods are of immense size, rich green, thick, broad, extra long, solid, meaty, rich, tender and entirely free from string. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.50.

65. Black Valentine. Pods are long, round and straight, very attractive in appearance and of good quality. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.50.

68. Dwarf Horticultural, or Bush Cranberry. Very productive and compact in growth. Pods medium length, broad, thick, curved and splashed with red. Very desirable as a green shelled Bean, maturing early. Seed, large, oval, plump, splashed with bright red. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.50.

70. Extra Early Red Valentine. (Round Pod.) Pods are usually ready to pick in about forty-three days from germination. Vine erect; pods, medium length, curved, cylindrical, with crease in back, very fleshy, crisp and tender; seed long, of medium size. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c; 5 lbs., \$1.25.

72. Longfellow. A remarkably early variety, producing long, round, green pods, solid, fleshy, and exceedingly tender. The pods are very brittle and have no strings when broken, unless the pods are quite old. These Beans are extra early, the pods are ready to pick four days in advance of most other green podded bush Beans. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.50.

75. Long Yellow Six Weeks. Early, productive and of excellent quality; pods often eight inches long; a popular variety. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c; 5 lbs., \$1.25.

80. Refugee. Late or 1000 to 1. Vine large, spreading, exceedingly hardy, very late, and for this reason used for late planting and for pickles. The pods are long, cylindrical, green and of good quality. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c; 5 lbs., \$1.25.

85. Stringless Green Pod. The finest green pod, stringless Bean. The earliest and hardest of all green-podded sorts and produces large, handsome pods, some of which measure fully six inches in length. The plants are very productive, bearing profusely the beautiful green pods, which are perfectly round, straight, broad, tender, brittle, finest flavor, very fleshy and entirely stringless. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.50.

87. Improved Goddard or Boston Favorite. A long flat-podded variety, used as a Snap Bean when young and as a Shell Bean, when fully developed, being beautifully striped and splashed with bright crimson. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.25.



Improved Golden Wax Beans.

Ask for prices on Beans in quantity when you are ready to buy. Please note that quantities of Beans larger than quarter pounds are not prepaid. Refer to top of this page and postage rates on page one.

BEANS

Ask for prices on Beans in quantity when you are ready to buy.

Culture. Plant all varieties of Beans after danger of frost is past. Pole Beans require fertile soil. Plant six seeds 2 inches deep in hills around poles 8 feet high, set firmly in the ground.

The poles should be set about 3 feet apart each way and the seeds placed in the ground in a circle about 6 inches from the base of the pole. Cultivation same as for Bush Beans.

POLE OR RUNNING VARIETIES.

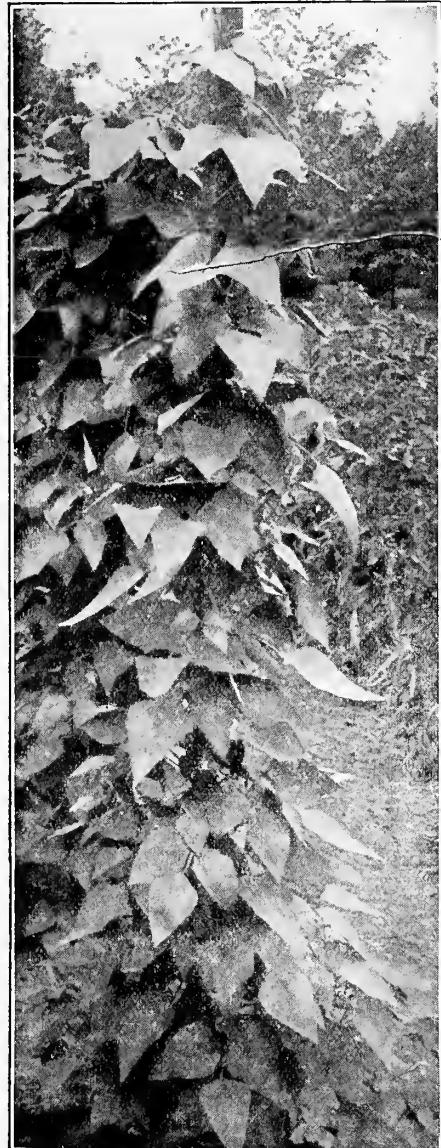
100. Kentucky Wonder. (Old Homestead.) This climbing variety is very vigorous and productive and bears its pods in large clusters. The pods are green, very long, often being nine or ten inches, nearly round, stringless and very crisp when young, and so fleshy that they are greater in width than breadth. The seed is long, oval, dun-colored. This is one of the very best early Pole Snap Beans for the home garden or market. There is a plentiful supply of them this year, the price is moderate so they should be used freely. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$9.50.

102. Kentucky Wonder Wax. This vigorous wax podded Pole Bean is very similar to the green podded Kentucky Wonder but the pods are a little broader. They are fleshy and stringless as snaps and are of excellent quality. The pods are very long, handsome light yellow. Its earliness and hardiness commend it for northern latitudes. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.25.

90. Big Profit Pole Bean.

The Big Profit Bean is fully two weeks earlier than any Pole Lima.

The Beans are large, thick and luscious, and are borne four or five in a pod. The vines are strong and thrifty, cling tightly to poles and bear abundantly, the pods hanging in bunches or clusters. No Lima Bean can surpass the Big Profit in quality; it has the same rich, buttery flavor, always desired but seldom found. Gardeners will make no mistake in testing this new, extra early Bean. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$9.50.



Kentucky Wonder Pole Beans.

95. Golden Cluster Wax.

The vines are large, vigorous, and hardy; pods six to eight inches long, borne in clusters; color, yellow to white; broad, thick, fleshy and of the very best quality. Seed, oval, dull white in color. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.75.

98. Horticultural Pole, or Speckled Cranberry. Vines vigorous with large, light colored leaves. Pods short, broad, green, streaked with bright red. Beans are large, round, splashed and spotted with red. Of very fine quality, either as a green Shelled Bean or dry. The best late Shell Bean for both home and market. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.50.

105. King of the Garden Lima. The vines are very vigorous and prolific. Pods are of large size, filled with four or five large Beans of very fine quality. The Beans are easily shelled and of handsome appearance. A favorite with market gardeners. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$0.50; 50 lbs., \$9.50.

107. Large Green Seeded Pole Lima. This new variety is sometimes called the "most perfect Pole Lima" on account of several very distinctive features. The vines are strong and vigorous, and produce a great number of pods. The pods are usually filled with four large broad Beans, having a more nearly perfect shape, than any other Pole Lima. Especially valued for canning purposes. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.50; 10 lbs., \$2.75.

110. Large White Lima. Vine tall, growing vigorous but slender; leaves medium sized, smooth, light green; pods borne in clusters; are long, broad, very thin, dark green; seed large, flat, greenish-white. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$9.50.

115. Lazy Wife. So named on account of the large number of pods it affords, making it easy to obtain a supply. One of the best varieties for snaps of the late green-podded Pole Beans. The pods grow in large clusters, are five to seven inches long, broad, thick, fleshy, and entirely stringless. They have a rich, buttery flavor. The dry Beans, which are white, are fine for Winter use. Pkt., 5c; $\frac{1}{4}$ lb., 20c; lb., 50c; 5 lbs., \$2.25.

120. Scarlet Runner. Ornamental and useful. The vine is graceful; flowers are of a brilliant scarlet, and the Beans are of an excellent quality, either when shelled or in a dry state. Large pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; 5 lbs., \$1.75.

122. White Dutch Runner. Identical with Scarlet Runner Bean except in color of blossom, which is white. Very rapid in growth. Large pkt., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

125. White Creaseback. A fine, early, green-podded, Pole Bean of rapid growth and very productive. The pods grow in clusters and are from five to six inches in length, perfectly round and deeply creased. They are very fleshy, stringless and of the best quality. The Beans are white and are excellent shelled. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$9.50.

DWARF OR BUSH LIMA VARIETIES.

No garden is complete without Dwarf Limas. Lima Beans weigh 56 lbs. per bushel.

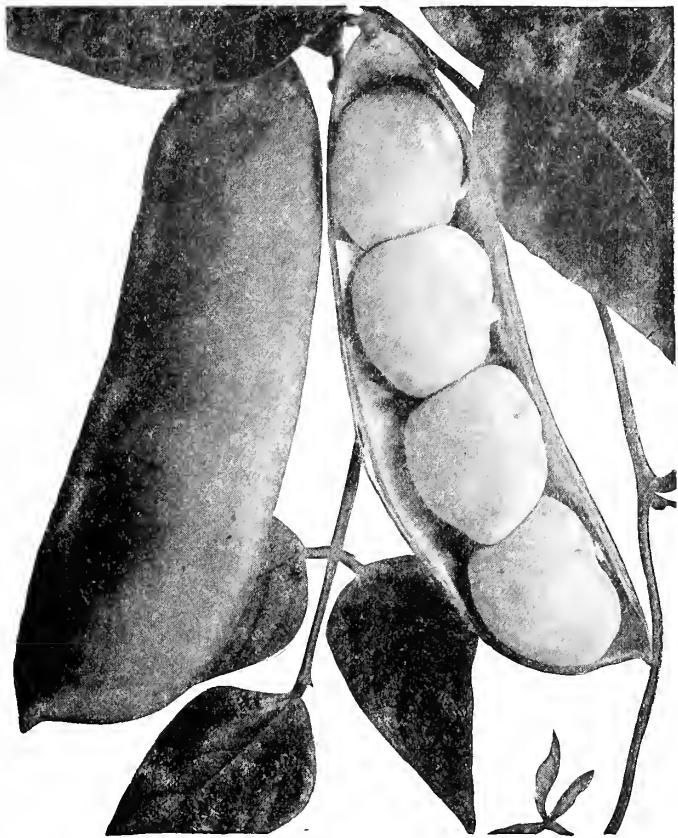
130. Burpee's. The bushes are 18 to 20 inches high, of stout, erect growth, branch freely, forming large circular plants from two to three feet in diameter, very prolific, bearing large, beautiful pods well filled with large Beans of the same size and delicious flavor as the pole variety. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$9.50.

135. Dreer's. The pods are short but thick, containing three to four very thick, short Beans, closely packed. This variety is later than Burpee's but the plants are very productive and the Beans are easily shelled and of delicious flavor. The vines are not erect, but trail over the ground about three feet. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$9.50.

140. Henderson's or Sieva. Grows erect to a height of 18 to 20 inches and requires no support. Very early and productive. The Beans have the true Lima flavor, rich, buttery and tender. These are two weeks earlier than most Pole Limas. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$9.50.

145. New Wonder Bush Lima. Of more bushy character than other varieties, the pods being borne nearer the stalk. It is very productive and in quality and flavor is unsurpassed. Try this Bean. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$9.50.

Prices on Beans are prepaid only on packets and quarter pound lots. Postage rates on page one.



Burpee's Bush Lima Beans.

FIELD BEANS

Notice to Bean Growers. It seems very strange that Bean growers, otherwise intelligent, should plant mixed seed. A visitor to the commission houses of any large city can see thousands of bushels of Beans, clean, bright and of good sample, but badly mixed as to variety. This always results in a loss to the grower, as any variety of Beans in order to bring the highest market price must be straight stock.

Culture.

Early plowing, at least five weeks before planting time, is necessary for good results with Beans. After this the land should be cultivated frequently to bring it into the best possible condition.

For further information regarding culture see bottom of page.

A good Bean Harvester can be made from any two horse plow by taking off the mold board and welding a narrow, thin piece of steel to the end of the lay, making a cutting edge of about 30 inches. By keeping the lay sharp this will cut off the Beans just below the surface and save the labor of hand pulling.



155. Brown or Swedish. There is a large call for these Beans and although we have given them small space, have sold large quantities. It is a fine field variety and the demand is usually good and the price high. The Beans are brown in color, medium size and excellent for cooking. Pkt., 5c; $\frac{1}{4}$ lb., 15c; 1lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00.

160. Choice Navy. Our stock of this well known variety has been carefully selected and cleaned and will be found far superior to Beans commonly offered as "Navy Stock." Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$9.50.

162. White Tepary Bean. A white shell Bean more prolific than the Navy. This is a native of the arid Southwest and is well adapted to a dry climate; it is quick maturing and will endure drought better than other varieties. It cooks tender and the flavor is delicious. Tepary Beans are immune to common Bean diseases. Plant 12 lbs. per acre. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.50.

165. Red Kidney. A very fine variety for baking. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.50.

170. Boston Yellow Eye. Almost every one who has lived in New England knows the Boston Yellow Eye Bean. While much larger quantities of white Beans of the Navy type are used than of all other varieties combined, those who know about the Boston Yellow Eye prefer them to any other Bean for cooking, as they possess a richness and flavor known to no other variety. As a shell Bean they have no superior, and for cooking in a dry state, no equal. Any surplus one may grow above requirements may be easily sold at from \$1 to \$2 a bushel above the price of any white Beans, when their superior quality is known. We strongly recommend the planting of the Boston Yellow Eye. Once used, they are always wanted. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.50.

Cultivation. Next in importance to pure seed is the selection of the soil in which they are to grow. It is true that Beans thrive on most all soils but better results are gained by the liberal use of fertilizer or planting in light, rich, well drained loam. Beans are extremely sensitive to frost and moisture. It is useless to plant them before all danger of frost is past and the ground is warm. Sow the seed in drills 30 inches apart and four to eight inches apart in the row. They should be frequently cultivated up to the time of blossoming, but this should never be done when the ground or plants are wet with rain or dew, as it will be sure to injure them. If disturbed while in bloom, it will prevent their setting well.

Plant 30 to 35 lbs. per acre, with grain drill.

Marketing. After the Beans are harvested and threshed, run them through a fanning mill to take out all the broken Beans, pods and stems. Hand picking will add considerably to their value, taking out all dark or discolored Beans. If a canning factory be near, they will gladly pay a premium for clean, uniform seed. It is frequently desirable to ship the Beans to a reliable commission house in the larger cities, or if that is not convenient, the country merchant will be willing to handle them for you.

The raising of Beans will reward the grower on account of the price to be realized.

Order Early. It will be a great convenience, both to our customers and to ourselves, if seed orders are sent us early. We aim to fill orders the same day received, but during the rush season this is not always possible. Early orders, also, are filled from the choice of our stocks—thus the double advantage of sending in your order as soon after receipt of this catalogue as possible.

Please note prices on Beans are prepaid only on packets and quarter pound lots. Postage rates on larger quantities given on page one.

Ask for prices on Beans in quantity when you are ready to buy.

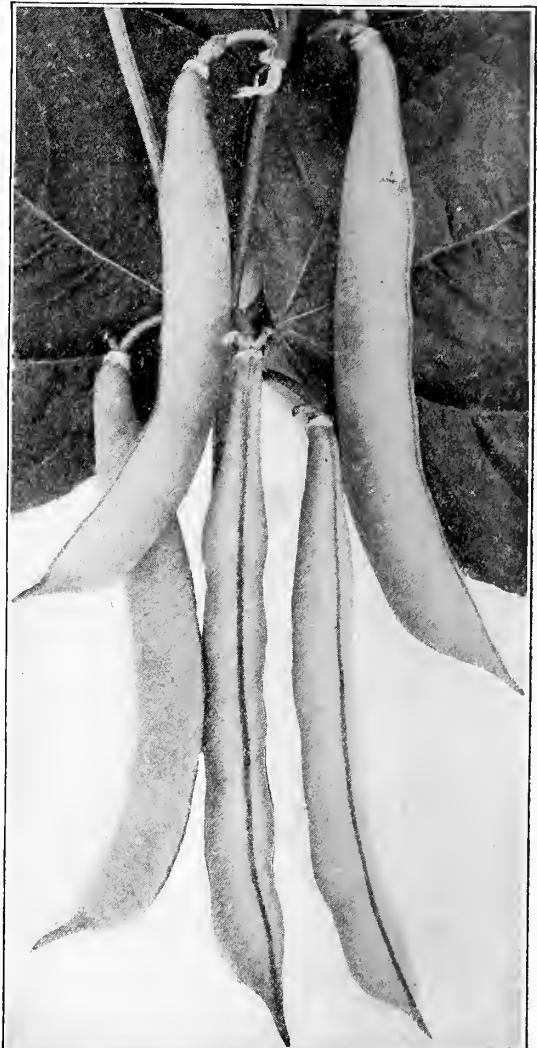
150. California Wonder or Improved Tree Bean.

A Wonderful, Productive, White Field Bean.

This is without question the heaviest yielding Bean known. It is not a garden variety, but belongs to the class of field Beans, the seed of which resembles the well known "Navy" Bean. On account of its snowy whiteness and its uniformly small size, the California Wonder commands the highest price in all markets. Our seed is carefully selected and is pure stock, which is seldom found in Navy Beans. Mixed stock always sells at from 25 to 50 per cent less than straight stock. A few cents extra expended on the seed means many dollars in the crop. The plants grow upright and bear the pods well up from the ground, thus keeping them away from the soil and making them more easily gathered. This variety is giving the best of satisfaction to our customers as is evidenced by the many letters of commendation which we have received. Thirty pounds of California Wonder Beans will plant an acre. Price, pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.50; 10 lbs., \$2.75; 25 lbs., \$6.25; 50 lbs., \$11.25.

SEVEN POINTS of MERIT of the CALIFORNIA WONDER BEAN.

Productiveness, Whiteness, Small Size, Uniformity, Salability, Upright Growth, Fine Quality.



Stringless Green Pod Beans. See page 12.

BEET

Culture. Sow seed one inch deep in rows 15 to 24 inches apart in fertile, well pulverized soil, using 5 to 6 lbs. seed per acre. An ounce will sow 50 feet of drill. Cultivation should begin almost before the Beets are up and continue until the plants shade the ground. When a few inches high, thin to six or eight inches apart in the row.

175. Northrup, King & Co.'s Sterling. Sold only in Sealed Packages. In this Beet we offer our customers a decided novelty. It is as early as Eclipse, perfectly globe-shaped, with a single tap root, and of the richest color of any of the Beets.

It is a splendid keeper, is not exceeded in yielding qualities by any other sort, is exceedingly tender, fine and sweet and is unequalled for table use.

Market gardeners will find our Sterling a very profitable variety to grow, as no other sort approaches it in attractiveness. Exposed on the market by the side of other Beets, it at once catches the eye of the customer and completely dwarfs in appearance all other sorts. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

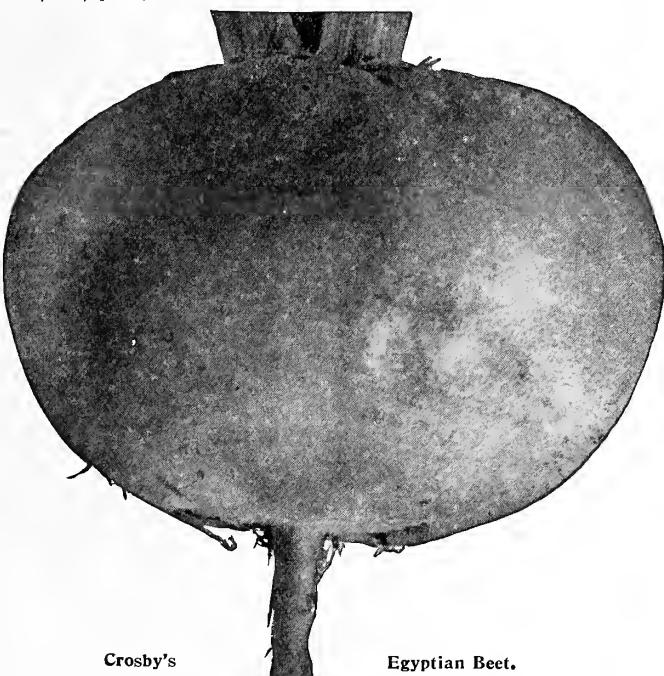
180. Northrup, King & Co.'s Market Gardener's. (Sold only in sealed packages.) This is the ideal Beet for market gardeners and the home garden. It is very symmetrical, with small tap root and but few fibrous roots; color outside is deep blood red; inside, layers of blood red and light red alternately.

When cooked they are a beautiful dark red throughout, fine grained and unsurpassed in quality. It continues to grow until late in the Fall, attaining a large size and making a good selling and eating Beet for Winter. One sowing is necessary to produce early Beets for market and main crop for winter use. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

185. Crimson Globe. A very handsome variety of medium size, nearly globe-shaped, free from rootlets, leaving the surface smooth. The flesh is a rich, blood red of the best quality, sweet and tender, never stringy. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

190. Crosby's Egyptian. An improvement on Extra Early Egyptian, being as early, but of more desirable shape, color and quality. It is very sweet and tender; a most valuable sort for early market as it is ready before any other Beet of equal quality. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

195. Detroit Dark Red. Roots globular; smooth with small tops; skin blood red; flesh dark red, zoned with a lighter shade; tender and sweet. This is a splendid variety for canning. The tops are upright in growth; the leaves are dark green shaded with red. See illustration on page 16. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.



Crosby's

Egyptian Beet.

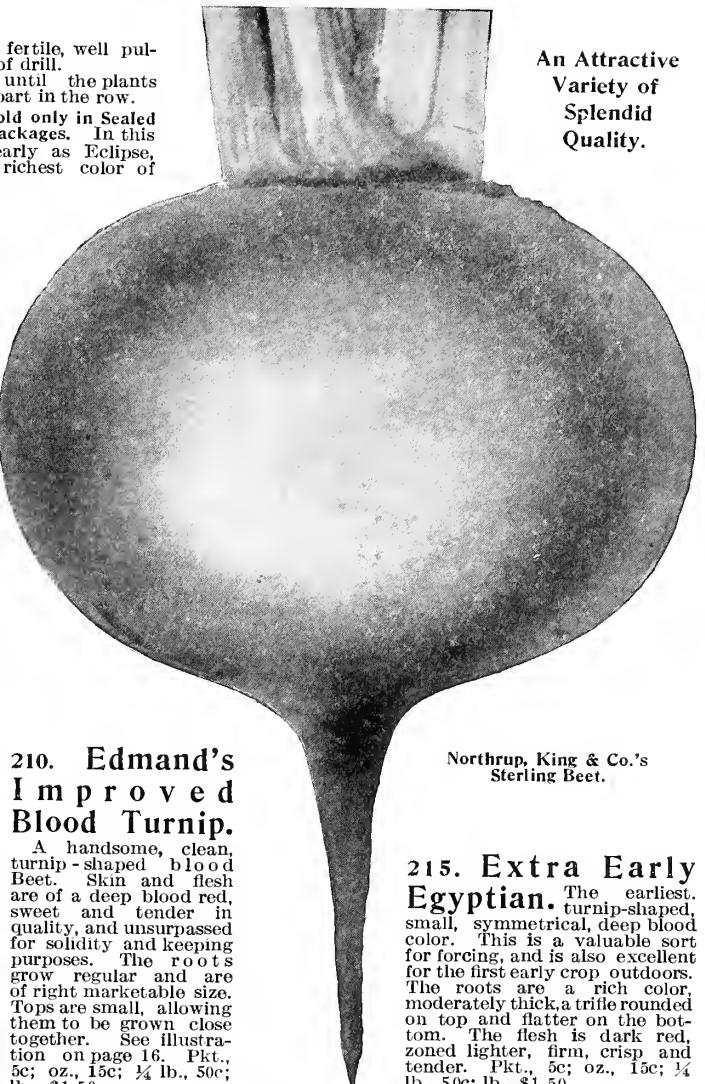
200. Early Blood Turnip. Roots turnip-shaped, deep crimson, tender and sweet. This is an excellent market and home garden sort for Summer and Autumn use, a very good cropper. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.35.

202. Early Model. A splendid variety for table use. It is medium early in maturity, being ready a few days before Crimson Globe. The roots of Early Model are of nice size and grow uniformly perfect, nearly globe-shaped with a slim, smooth tap-root. Leaves are small, colored dark crimson. The color and quality are excellent, flesh being tender, sweet, rich deep crimson and fine flavor. Makes a splendid selling Beet on account of its fine appearance. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

205. Eclipse. Makes rapid growth, top small, quality fine, larger than Egyptian, but not as deep a red in color. This is an especially desirable sort for the home garden and bunching. The roots are smooth and round with a small top root and collar. The flesh is very sweet, crisp and tender, especially when young. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.40.

Fertilizers. For Beets of quality you must have a mellow, fertile soil. Use our Sterling Fertilizer to supply the necessary plant foods for this crop. See page 154 for description and prices.

An Attractive Variety of Splendid Quality.

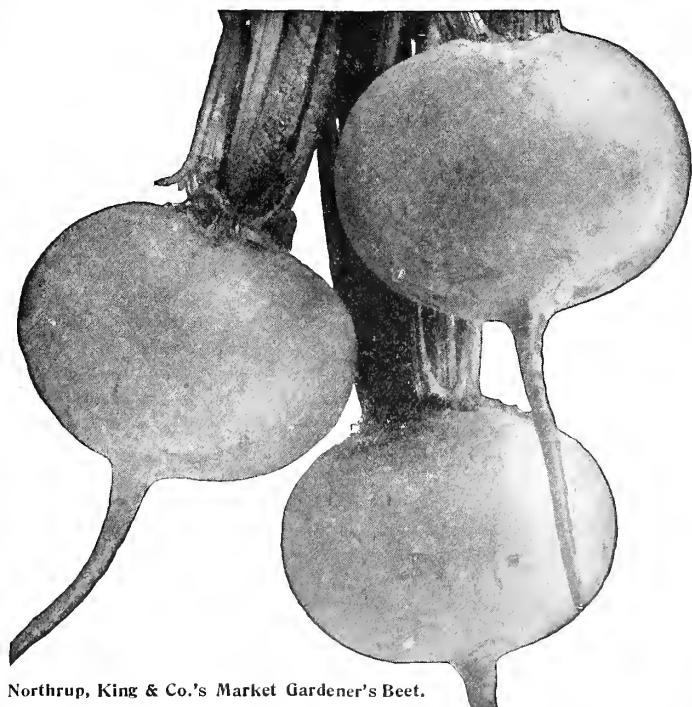


Northrup, King & Co.'s Sterling Beet.

210. Edmand's Improved Blood Turnip.

A handsome, clean, turnip-shaped blood Beet. Skin and flesh are of a deep blood red, sweet and tender in quality, and unsurpassed for solidity and keeping purposes. The roots grow regular and are of right marketable size. Tops are small, allowing them to be grown close together. See illustration on page 16. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

215. Extra Early Egyptian. The earliest, turnip-shaped, small, symmetrical, deep blood color. This is a valuable sort for forcing, and is also excellent for the first early crop outdoors. The roots are a rich color, moderately thick, a trifle rounded on top and flatter on the bottom. The flesh is dark red, zoned lighter, firm, crisp and tender. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.



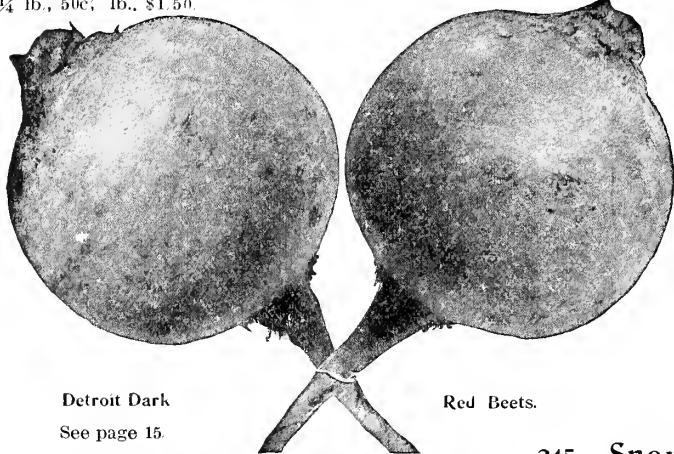
Northrup, King & Co.'s Market Gardener's Beet.

BEET

225. Half Long Blood. This is rapidly becoming a very popular sort and will probably produce more bushels from a given area than any other sort, as it does not occupy so much space in the row as the turnip-shaped varieties. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

230. Improved Long Blood. One of the best and most popular table Beets, especially for autumn and winter use. Our seed has been grown from selected roots, and we can recommend it as a superior stock. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.35.

235. Swiss Chard or Spinach Beet. This variety does not produce an edible root like the regular garden Beet, but is highly esteemed for the broad, white leaf stalks and midribs which are cooked and served in the same manner as asparagus, making a most delicious vegetable. The leaves are also cooked like spinach and considered equally palatable. Two distinct dishes may thus be grown from one plant at the same time. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.



Detroit Dark

See page 15.

Red Beets.

238. Giant Lucullus Swiss Chard.

The largest and best variety of Swiss Chard. Seed sown early in the Spring will produce plants quickly from which the thick light-colored mid-ribs of the leaves may be cut down to the ground. New growth will quickly succeed it which may in turn be gathered. If the plants are allowed to grow on, an abundance of large curly leaves may be obtained, which make most excellent greens. No garden is complete without Swiss Chard, and the grower will be amply rewarded by giving it at least a small space. It is also splendid for poultry as a green feed or pasture. The birds like it and it grows up quickly. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

Book on Cabbage, Cauliflower and Allied Vegetables. By C. L. Allen. Gives complete instructions from seed time until harvest. Price, 50c, (postpaid, 55c).

Notice. All vegetable and flower seeds sent prepaid except where noted.



Swiss Chard.



Edmand's
Improved Blood
Turnip Beet.
See page 15.

BROCCOLI

245. Snow White. Culture same as for late cauliflower. Forms heads very much like a cauliflower, but is much harder, and gives excellent results in cool localities. It is not so valuable as the cauliflower in warm or dry climates, nor of such good quality. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50; lb., \$5.00.



BRUSSELS SPROUTS

Brussels Sprouts are highly valued in all European countries, but are not generally appreciated here. Thousands and thousands of native born Americans have never tried them and do not know what palatable and nutritious vegetables they are. They should be in every garden.

Culture same as for early or late cabbage, depending on whether an early or late crop is desired, with the exception that the seed should be sown a few days earlier and when the plants are planted out they should be set 15 in. apart in rows 2 ft. apart. 1 oz. will sow 200 ft. of drill.

240. Improved Dwarf. The stem which usually grows from 20 inches to 2 feet in height, is covered with "miniature cabbages" which may be boiled like cabbage or cooked in cream like cauliflower. They are by all means the most delicious and delicately flavored of the cabbage family. On this variety the heads grow very closely and its quality is the finest. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

242. Dalkeith or Perfection. Plants are of dwarf growth and stems are thickly set with large, solid sprouts. This variety is very hardy and even during quite severe weather, the plants maintain their sprouts; in fact the flavor and quality is much improved by frost. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

SUGAR BEETS

For Sugar Making.

Sugar Beets are now extensively grown in many sections of the country where Sugar Beet factories are located. The large yield per acre and the price secured for the crop make them very valuable. Sugar Beets may also be used for stock feeding as they contain 12 to 15 per cent of sugar in addition to other nutrients. Sugar Beets are ripe and in condition to harvest when the lower leaves begin to take on a yellow tinge and droop. Beet tops make an excellent food for cows, sheep and other live stock. This is also true of the pulp from the factory. A large Sugar Beet factory in Montana, having an immense output, grows in connection with their Sugar Beets a large acreage of alfalfa. They then buy up thousands of sheep and make a practice of feeding them for the market on the combination of Beet pulp and alfalfa, and the results are very remunerative.

282. Jaensch's Victrix. Undoubtedly the most highly developed variety for sugar making. Roots of medium size, white skin with tinge of gray, half long and very uniform in size and shape. Flesh white and very rich in sugar. Pkt.,

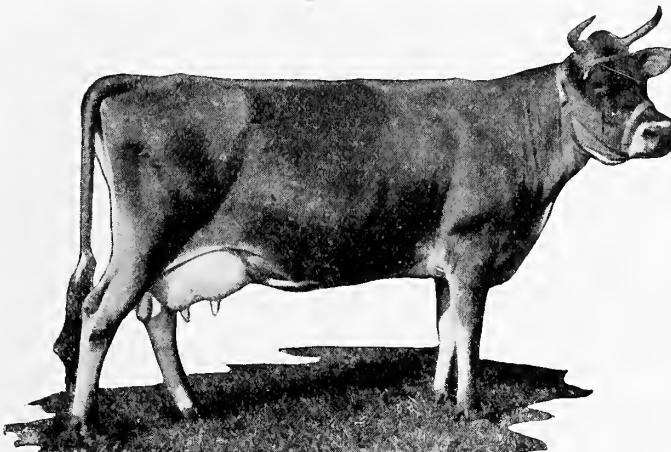
The ground should be thoroughly prepared and made firm and mellow, same as for Mangels. Seeding and cultivation should be continued in much the same manner except that they should be thinned out 6 to 8 inches in the row. The Giant Feeding Sugar Beets or Half Sugar Mangels are especially valuable for feeding stock as they give a feed of much greater nutritive value than Mangels.

275. Giant Feeding Sugar Beet or Half Sugar White Mangel. This magnificent Sugar Beet while giving nearly as large a yield of easily grown and harvested roots as a crop of Mangels, supplies a food of very much higher nutritive value, the roots for feeding purposes being really more valuable, pound for pound, than those of the very best strains of Sugar Beet, and the yield under equally favorable conditions is more than double. The roots grow partly out of the ground and because of this and their shape the crop can be harvested and stored at less expense than any other root crop. We are certain that every one who plants this variety and grows it with care will be much pleased. Every farmer should try it. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c. By express or freight, 10 lbs. @ 65c per lb.

277. Royal Giant Sugar Beet or Half Sugar

Rose Mangel. Very similar to Giant Feeding Sugar Beet except in color. The skin is bright rose above ground and white below. Flesh white, sometimes tinged with rose. Roots grow half out of the ground and are thus easily harvested. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c. By express or freight, 10 lbs. @ 65c per lb.

280. Sugar Beet for Stock Feeding. We can furnish ordinary seed of Sugar Beet, which will give a large yield and tonnage. Oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c. By express or freight, 10 lbs. @ 50c per lb.



A Full Blooded Jersey.

Sugar Beets and Mangels When Fed to Milch Cows Materially Increase the Flow of Milk.

Seeding and Cultivation.

As in the case of Mangel: the best seed obtainable, regardless of the price, is the cheapest in the end. Sugar Beet seed is not a high priced article and the expense of seeding an acre of land is very small when compared to the value of the crop. A maximum yield of 15 to 20 tons an acre is possible with the best seed, while lower priced seed may produce barely enough to pay the cost of cultivation and handling.

The time of planting should be determined by the condition of the soil, the locality and season. Sandy soil becomes warm and dry much earlier than heavy clay loam. Tillage also has a tendency to increase the warmth in the soil. Do not plant Sugar Beets until the soil is warm enough to germinate corn. When oak leaves burst their buds, corn and beets may be planted with safety. Be liberal with the seed in order to secure a good, uniform stand of plants. A surplus is much more desirable than thin seeding. It often happens that a crust is formed on the surface which a scanty seeding will not break through in the plants' effort singly, to reach sunlight, but collectively they will aid each other in breaking the surface. The depth of planting must also be determined by local conditions of the soil, season, etc. Deep planting should be avoided because it often prevents germination when shallow planting, say one-half to one inch, will produce satisfactory results. The distance between rows will depend somewhat on the soil and methods of cultivation employed. Rows 18 inches apart will produce the largest returns in yield, but these cannot be cultivated with a horse. Hand labor is expensive; therefore, we advise planting 20 to 24 inches between rows, using a 4 to 6-row planter for the purpose.

Cultivation should commence immediately after planting by following the rows indicated by the press wheel. Before the plants appear, cross rows with a light hand weeder, made by driving ten-penny nails through a board, and used as a harrow, which will break the surface crust and maintain an earth mulch to prevent the escape of soil moisture. This process may be repeated two or three times with excellent results.

5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00. By express or freight at purchaser's expense, 10 lbs. @ 90c per lb.

285. Vilmorin-Elite. This Beet is the result of thirty-five years of methodical and persevering selection. In black soils rich in organic matter, it gives results equal to any other variety. Its average yield may be stated as from 12 to 16 tons an acre. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00. By express or freight at purchaser's expense, 10 lbs. @ 90c per lb.

290. Klein Wanzlebener-Elite. This variety at the present time has probably a wider cultivation than any other Sugar Beet. It may be distinguished from the Vilmorin by its brighter color and its lighter colored leaves, which are beautifully undulating, and scalloped about the edges. While not, as a rule, equal to the Vilmorin in saccharine richness, it is considerably more productive. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c. By express or freight at purchaser's expense, 10 lbs. @ 75c per lb.

For Stock Feeding.



Giant
Feeding
Sugar Beet or
Half Sugar
White
Mangel.



NORTHRUP, KING & CO.'S
IMPROVED MAMMOTH LONG
RED MANGEL.

MANGEL WURZEL

For Stock Feeding.

We have our seed grown under contract in England by experts, as there is no other place in the world where Mangel and Ruta Baga are produced to such perfection. Mangel and Ruta Baga seed can be grown in the south of France for less than one-half the price we pay for our seed, this seed is not dependable, therefore we do not handle it.

Culture. Sow 6 pounds to the acre in May or June, in rows three feet apart, and thin to nine inches in the row. Cultivate frequently with horse tools.

250. Northrup, King & Co.'s Improved Mammoth Long Red Mangel.

(Sold only in sealed bags.)

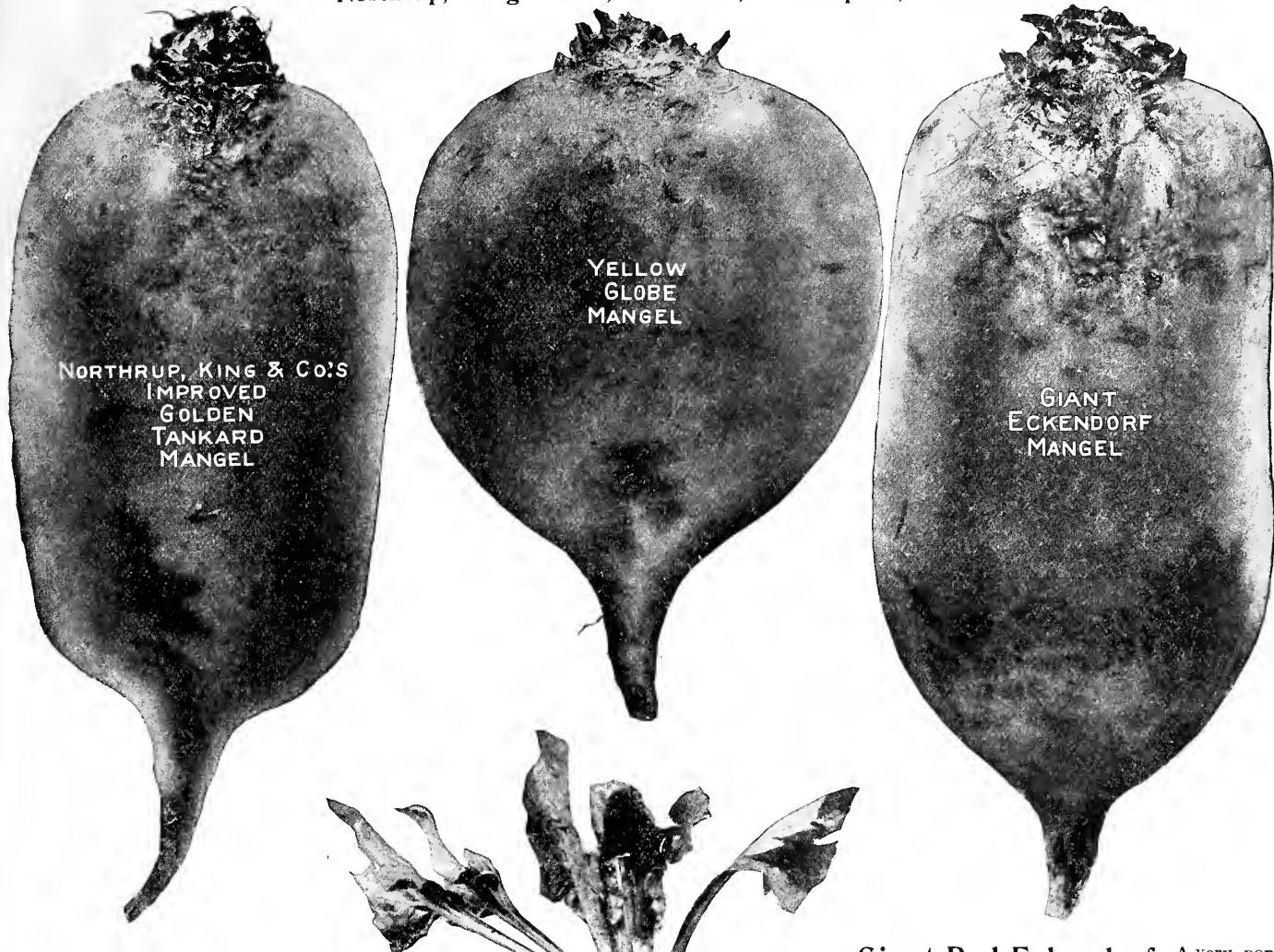


Farmers and stock raisers of the United States do not appreciate so fully the value of Mangels for feeding cattle, hogs, sheep, etc. as do the farmers of Europe. In Germany, Great Britain and other European countries, it is the exception rather than the rule where Mangels are not grown on a large scale on every farm. The immense yield which may be secured from an acre, with very little expense either for material or labor, makes the Mangel crop one of the most profitable on the farm. 15 to 20 tons of roots an acre is not an unusual yield; some specimens weigh 20 to 30 lbs. each. Where properly cultivated, seeded and harvested the cost of growing a bushel of our Improved Mammoth Long Red Mangel should not exceed 5c. When fed in combination with grain they are worth almost as much, pound for pound, as the grain. This statement may seem absurd, but experience has proved that Mangels so aid digestion and assimilation, by keeping the animals in a healthy condition, that they increase the feeding value of other feeds consumed, beside the nutrients the roots contain.

Our stock of Improved Mammoth Long Red Mangel is a selection and the seed is especially grown for us in Europe. The roots are very large, uniformly straight and well formed; color, deep red; roots, straight; tops, small.

Every farmer ought to put in at least an acre of Mangels this coming season, 5 or 10 acres will be much better. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c. By express or freight at purchaser's expense, 10 lbs. @ 50c per lb.





MANGEL WURZEL

For Stock Feeding.

255. Northrup, King & Co.'s Improved Golden Tankard.

(Sold only in sealed bags.) We have for years, insisted that this was the best Mangel grown and each season strengthens us in the position we took when it was a comparatively unknown sort. We recommended it unreservedly as the best Mangel for dairy farmers. It combines apparently all the fine points possible to condense into a Mangel. The skin is a deep rich yellow. The flesh is firm and solid and a rich golden yellow in color. On account of its shape enormous crops are grown, and it is easily lifted from the ground. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c. By express or freight, at purchaser's expense, 10 lbs. @ 50c per lb.

256. Crimson Tankard. In appearance it closely resembles the favorite—Golden Tankard. It is adapted to all soils, is easily lifted from the ground and is a very productive sort. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c. By express or freight, 10 lbs. @ 50c per lb.

258. Danish Sludstrup. The Danish Government encourages the growing of root crops by offering certificates of merit to growers who select and produce sorts which are of distinctive value. Sludstrup is considered the best of all Mangels having been awarded first class certificate. In color it is reddish-yellow and of a distinct type. It contains the largest per cent of nutriment found in any sort. It is very hardy, grows well above ground and is easily pulled. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c. By express or freight, 10 lbs. @ 60c per lb.

265. Mammoth Golden Giant. Very large. Remarkably even in shape, of vigorous growth; has a fine neck and a very smooth skin. Flesh white, firm and sweet, much liked by cattle. Easily lifted from the ground, producing enormous crops. Excellent keeper, yields 40 to 60 tons an acre. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c. By express or freight, at purchaser's expense, 10 lbs. @ 50c per lb.

260. Giant Red Eckendorf. A very popular variety grown in European countries where root crops are grown on a very large scale. It has also proved very satisfactory in the United States whenever it has been tried. The roots are smooth, long and cylindrical in shape, very much like the tankard Mangels. They are very heavy, weighing up to 15 and 20 pounds each. The flesh is firm, crisp and solid, white in color and of high feeding value. This variety is easily harvested, a large proportion growing above ground. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c. By express or freight, at purchaser's expense, 10 lbs. @ 50c per lb.

262. Giant Yellow Eckendorf. The same as the previous variety except the skin is yellow. Very desirable in all respects. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c. By express or freight at purchaser's expense, 10 lbs. @ 50c per lb.

270. Yellow Globe. It has a very small top and few leaves, leaf stalk and blade green; root medium sized, globe-shaped, having a small tap and few side roots; skin, deep orange-yellow in color; flesh white and of excellent quality. The root grows almost entirely above ground, making it well adapted to shallow soil and very easy to harvest. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c. By express or freight at purchaser's expense, 10 lbs. @ 50c per lb.

Seeding and Cultivation.

Where Mangels are extensively grown, the seed should be sown with a machine. Small fields may be sown with a hand drill, which will do good work and is very satisfactory. Do not crowd the rows because much of the root grows above the surface and plenty of space should be allowed for a horse and cultivator. Three feet apart is about right.

Freezing injures Beet plants. Therefore, seed should not be sown until the ground is warm and the weather fully settled, say about corn planting time.

The quantity of seed required per acre will vary somewhat with the variety. It pays to be generous with the seed and insure a good stand of plants. Shallow planting is desirable because the seed germinates more quickly and a larger proportion will make vigorous plants than when planted deeply. One-half to one inch of well packed earth is sufficient covering for Beet seed, when there is a good supply of moisture in the sub-soil. Deeper planting will be required on sand lands or when the soil is dry. Cultivation should begin within a day or two from planting. Thin the plants to nine inches apart in the row.

CABBAGE

ARRANGED IN ORDER OF EARLINESS.

Culture for Early Cabbage. Seed of the early varieties should be sown $\frac{3}{4}$ of an inch deep in a greenhouse, hot-bed, or in boxes in the house, about 6 weeks before the plants are needed for planting out.

If, when the second leaves appear, the plants can be transplanted, spacing them 3 inches apart, better and more hardy plants will be obtained.

As soon as the soil can be worked in the Spring the plants should be removed to the open field and set in rows 2 feet apart each way. Cultivate occasionally to keep out weeds and preserve the moisture in the soil until the plants shade the ground. One-half lb. seed will produce plants for one acre. See page 22.

Culture for Late Cabbage. The seed may be sown in rows 1 foot apart or broadcast in the garden, about the middle of May, and the plants set in the field the latter part of June, or it may be planted in hills 30 inches apart, 4 to 5 seeds to the hill, in the field where the cabbages are to grow, thinning to one plant in a hill when the plants are 3 to 4 inches high.

Cultivation must begin as soon as the plants are set in the field, or as soon as seed sown in the field is up and continued as long as it is possible to get through them with a horse cultivator without injury to the plants.

Where the seed is sown in the field, whether it be in rows or in hills, it should be covered with $\frac{3}{4}$ of an inch of soil and this soil firmed well to insure rapid germination. One-half lb. seed sown in a bed will produce plants for one acre. Cabbage Plants on page 90.

295. Northrup, King & Co.'s Washington Wakefield Cabbage.

"First in Head, First in Market, First in the Hearts of Gardeners."

Sold only in Sealed Packages.

We introduced this remarkable Cabbage twenty-two years ago. It met with so hearty a reception from every one who grew it that it seemed as though every one who tried it must have written to make known their satisfaction. Every year we receive a great many letters of praise and congratulation regarding the Washington Wakefield Cabbage. No other Cabbage of which we have knowledge has aroused such enthusiasm among Cabbage growers as has our Washington Wakefield. It has the same general characteristics of other Wakefield Cabbages, the heads being conical with a rounded or blunt point. It is however, far superior to other strains of Wakefield Cabbage, being nearly double the size and of better quality, and at the same time is fully as early. It has few outer leaves, permitting close planting, so that more heads can be grown to the acre than with other sorts. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

325. Early Jersey Wakefield. Heads are very hard, compact, solid and conical in shape. Few outside leaves. We do not admit that our stock has any superior, except Northrup, King & Co.'s Washington Wakefield Cabbage. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 85c; lb., \$2.75.

310. Charleston Wakefield. Very similar to the Jersey Wakefield, but a few days later and half as large again. Not quite as pointed as the Jersey. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 85c; lb., \$2.75.

345. Express. A very early variety forming small oval heads, with round, thick leaves. The head is a little thicker, less pointed and slightly later than the Early Jersey Wakefield. A fine shipping sort. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.



340. Early Winnigstadt. Very early. The leaves are dark green and very tightly folded, making it the hardest of any early Cabbage. This variety seems to suffer less from the Cabbage worm than most other sorts. Heads are regular, conical and keep well both Summer and Winter. Our seed has been especially selected. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.25.

342. Early York. A very early variety. Heads, small, heart-shaped, firm and tender. May be planted 15 to 18 inches apart. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

298. Copenhagen Market. A new early variety, which will be very popular with market gardeners. It is the finest large, round-headed, early Cabbage in cultivation. It is further desirable on account of the remarkable characteristic of maturing the heads all at the same time, enabling the grower to gather his crop with less expense and permitting the cleaning of the land at the first cutting. The heads average about ten pounds each in weight, are hard and solid with small core. The quality is extra fine and sweet. It matures as early as the Wakefields and will yield more to the acre in weight. It is a short stemmed variety, the heads nearly resting on the ground. The leaves are light green, rather small, saucer-shaped and tightly folded, making it possible to set them close together in the field. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50; lb., \$5.00.

299. Glory of Enkhuizen. A variety of recent introduction from Holland. It is a valuable sort on account of its earliness, large size and fine keeping quality. The heads are of nice size for market, weighing about 9 to 11 pounds each, globe-shaped and handsome dark green in color. For an early sort, the heads are unusually firm and solid. The leaves are fine ribbed, tender and of excellent quality. The outer leaves set close, permitting planting of more heads to the acre, thus increasing the yield. This is not only valuable as an early variety, but as it grows large it may be profitably raised for the fall main crop. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.25; lb., \$4.00.

305. Allhead Early. Earlier than any other large Cabbage. Heads deep, flat, solid, uniform and very tender owing to its rapid growth. An all-the-year-round cabbage. We consider this one of the best secondary sorts on our list. Pkt., 5c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

330. Early Spring. A flat heading sort which has become popular on account of its earliness. The head is very solid and shapely, and as it forms quickly, may be marketed at a very early stage of its growth, enabling the grower to realize fancy prices. The quality is excellent, tender and of fine flavor. Prices, pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

335. Early Summer. Deservedly popular with market gardeners throughout the country. It forms large, solid, round, flattened, compact heads of excellent quality, tender and sweet. The heads average over double the size of the Jersey Wakefield, weighing eight to ten pounds each, while it matures only ten or twelve days later. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 85c; lb., \$2.75.

385. All Seasons. A grand variety. We can safely recommend the All Seasons Cabbage as one of the best and surest Cabbages to grow. It is a little later than Early Summer, but very much larger, (about double the size) and for the market gardener one of the most useful, marketable and profitable Cabbages to grow. It is perhaps the safest variety for the amateur to plant as it does well at all seasons and is a very sure cropper. The heads are dark blue in color and being tender and fine keeping are excellent for fall and winter use as well as during the Summer. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

360. Succession. About a week later than Early Summer, but much larger, measuring about twelve inches in diameter and weighing about ten to twelve pounds each. The heads are hard and solid and of fine quality. Very fine for either winter or summer use. One of the surest varieties to make a crop under all conditions. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

365. Surehead. Heads are large, round, flattened, uniform, very hard, firm and sweet, and average from ten to fifteen lbs. each. Certain to head, a good shipper and a fine keeper. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

347. Fottler's Improved Brunswick. An ideal secondary variety of the drumhead type. Very desirable for the home garden on account of its dwarf compact growth and few outer leaves. Head large, flat, solid and of excellent quality. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.



Northrup, King & Co.'s Premium Late Flat Dutch Cabbage.

CABBAGE

300. Northrup, King & Co.'s Discovery.

Sold only in Sealed Packages.

This valuable Cabbage fills a very distinct field as the earliest flat heading sort. Truckers generally prefer flat heading Cabbages to the pointed sorts, but up to this time, none have been developed that are as early as the Wakefields. Our Discovery Cabbage is as early as the Wakefields, in fact it might properly be termed a Flat Wakefield, for it has the thick, heavy leaves of the Wakefields. Here, however, the resemblance ceases as the head is distinctly flat and of compact growth. This enables the grower to plant closely, and he can secure a large crop from an acre because it is so reliable about heading. The heads are, as a rule, quite as large as those of the Early Spring, and enough earlier in our judgment to make it more profitable to gardeners, besides being, we think, less subject to disease. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

370. Northrup, King & Co.'s Harvest Home.

(Sold only in sealed packages). We have yet to see the Cabbage of equal quality that will yield as large a weight from a given area as the Harvest Home. Fifteen tons an acre is not an unusual yield and greater results have been attained under favorable conditions. We have yet to see the Cabbage that will equal it in reliability of heading, uniformity of size and solidity of head. We unhesitatingly recommend it to any one desiring the best Cabbage for fall and winter keeping or kraut making. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

375. Northrup, King & Co.'s Premium Late Flat Dutch.

(Sold only in sealed packages.) A low growing variety, heads large, bluish-green, round, solid, broad and flat on top; an excellent fall and winter variety, and a good keeper. It is a sure header. Our stock has been grown from carefully selected heads, and we consider it superior to any other strain of Flat Dutch Cabbage on the market. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 85c; lb., \$2.75.

380. Late Flat Dutch.

(Regular Strain). Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

350. Large Late Drumhead.

Grows a very large, solid head often reaching a

weight of twenty to thirty pounds. There is little outer foliage, the leaves all folding in closely about the head. A fine winter variety. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 85c; lb., \$2.75.

400. The Volga.

The quickest growing, large late variety. Uniform in growth, head hard and solid. It is two or three weeks earlier than other large kinds. The plant is nearly all head having few outside leaves. The heads are nearly as round as a ball and as hard and solid as Danish Ballhead, while they are much larger and heavier, often weighing 15 lbs. each.

The quality of this Cabbage is very fine both for cooking and for kraut. It will keep perfectly all Winter if kept cool.

If the plants are set out early they will head in July and August and can be used as a summer and fall variety. We are sure this Cabbage will prove a most profitable one to all who raise it. The plants are so compact that they can be set out $1\frac{1}{2}$ x 3 ft. and will produce enormous crops on good, rich land and fair crops on land that would not produce a ton to the acre of some other varieties. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

401. Autumn King.

Large solid heads, similar to Flat Dutch, with ruffled outer leaves. Needs long growing season. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00

See page 90 for Cabbage Plants



Early Summer Cabbage.

358. Early Dwarf Blood Red. Earlier than Rock Red, but not quite so large. The heads are hard, keep well and are of excellent quality. In color they are deep blood red and are considered fine for pickling. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

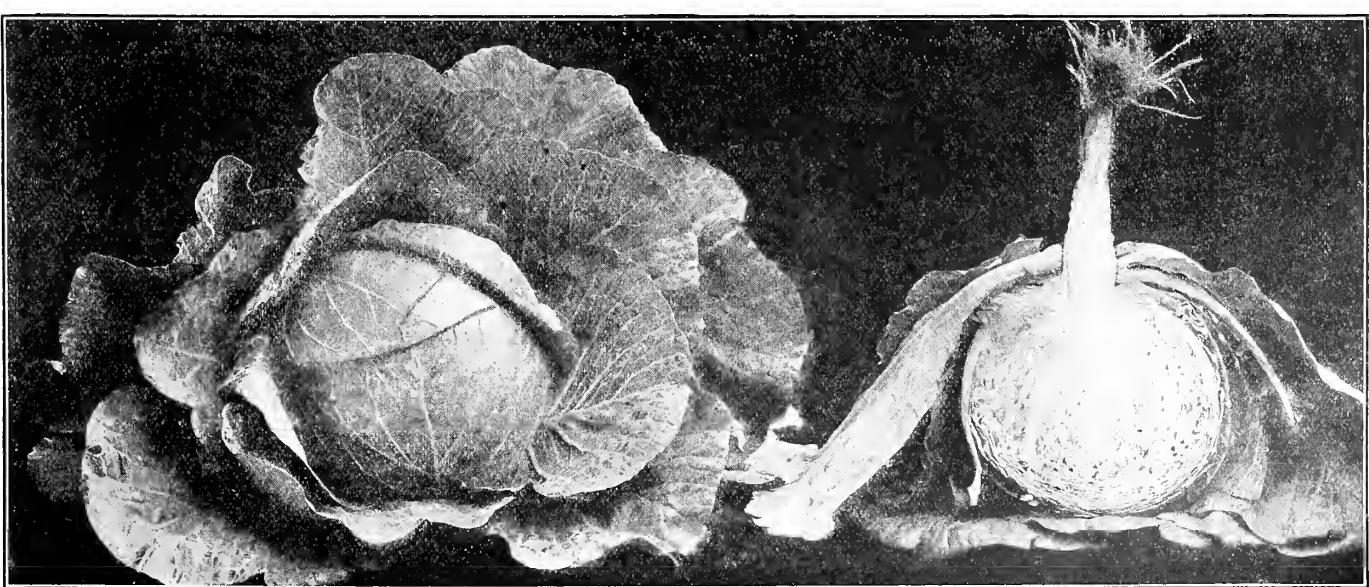
355. Rock Red. The best, largest and surest heading red Cabbage. Used mostly for pickling. The plant is large, with several spreading leaves. The head is large, round, very solid and of deep red color, averaging from ten to twelve pounds in weight. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 85c; lb., \$2.75.

348. Improved American Drumhead Savoy.

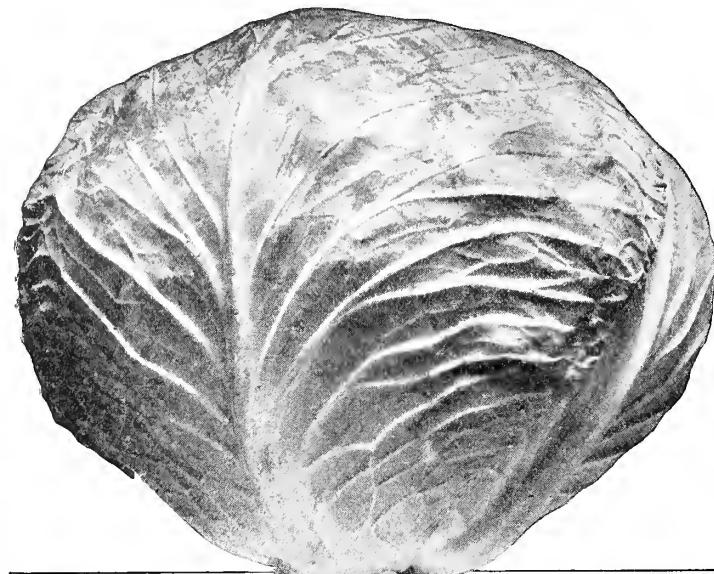
The best variety of Savoy or crumpled leaf Cabbage. The plant is vigorous, with short stem, has densely crumpled leaves and when touched by frost is sweet, delicate and delicious. The head is large and very solid. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

349. Celery or Chinese Cabbage.

Pe Tsai. Improved Chinese Cabbage. It is very easily grown and does well in nearly all parts of the country. It should be grown like a late Cabbage, planting in July, as early plantings run quickly to seed. The seed is sown in drills 16 to 20 inches apart and the seedlings trimmed two or three times. The full grown plant somewhat resembles a Cos Lettuce in appearance. It has a mild flavor and may be eaten raw or cooked. Boiled and seasoned with butter, it is especially delectable. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.



Heads of Copenhagen Market Cabbage. Note the Solidity of the Cross Section. Description on page 20.



A Field and Specimen Head of Northrup, King & Co.'s Holland Cabbage.

Culture and Value of the Cabbage Crop.

Soil. For information in regard to raising the plants, see page 20. Any good Corn soil will grow Cabbage if enriched well with barnyard manure which can be plowed under in the Fall or applied as a top dressing in the Winter or Spring. As soon as field is dry in the Spring, start the disc and keep it going at weekly intervals up to transplanting time. This will result in a field clean from foul weeds.

Treatment of Plants. Plants should be lifted with some soil on roots. Dip them in water, keeping the tops dry, and place in shade, roots down for two days. This hardens the plants and starts the second growth of roots.

Transplanting. Have rows 3 feet apart and plants 20 inches apart in row. Set with a trowel so that plants slope a trifle towards the North. Plant at least 8000 plants to the acre. If planted too far apart Cabbage grows too large for the commercial market.

Cultivation. Start using a fine tooth cultivator immediately after plants start to grow. Keep it up every 4 or 6 days until the Cabbages are large.

Harvesting. A large sharp knife or hatchet may be used for the purpose. An average crop of Cabbage is 12 to 15 tons per acre.

Value of Crop. A 12 ton crop would mean about 3000 to 4000 Cabbages. At a price of 5c each, the returns per acre would be \$150 to \$200. After deducting the cost of the plants, fertilizer and labor this will certainly leave a handsome profit for the grower. Whether it is best to sell the Crop in the Fall or hold until Spring will depend upon the variety of Cabbage grown, storage facilities and the market.

CABBAGE

390. Northrup, King & Co.'s Holland.

Danish Grown Stock.

Most remarkable late Cabbage yet produced, heads hard and solid—fine grained and tender. Entirely distinct in color. Very finest short stemmed type.

(Sold only in sealed packages.) In some important particulars this is the most remarkable Cabbage yet produced. In fact, it well illustrates the truth that "merit will win," in that while it was introduced only a few years ago, it has already become the favorite sort with those who have had the true stock.

This is a very hardy variety and a sure leader, extra solid and firm. The heads are of medium size and average about 8 pounds in weight; they are the heaviest for the size of head ever introduced. They stand shipment better than other late sorts. In quality they have no superior not only for immediate use, but even when kept until Spring, they come out as firm and sound as when put away; in the springtime no Cabbage will outsell them.

The plants are vigorous and hardy; our strain produces short stems and deep heads, as shown in the illustration. The leaves are rather upright in habit, large, thick and smooth with a distinct color.

Holland Cabbage is unsurpassed for shipping to distant points or late Spring use. There is no question as to the value of this Cabbage, the only point is where to obtain the best seed. We offer genuine Danish Grown Stock which was grown especially for us in Denmark. Repeated trials have proved the merit of this strain. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.25; lb., \$4.00.

315. Danish Ballhead.

Favorite for Winter Market.

This winter variety is especially desired on account of its great solidity and its keeping qualities. It is now one of the most largely grown varieties for the winter market in this country. The heads weigh more than other sorts of equal size. They are round as a ball, solid, fine grained, with few outside leaves; crisp tender and sweet, and unsurpassed for boiling, slaw, sauerkraut, etc. This variety has been selected and perfected for over fifty years by the Danish gardeners, who prize it so highly that they grow it almost exclusively for Winter Cabbage and annually export large quantities of it. It grows well on all soils and under most conditions, notwithstanding hot, dry weather, and does not rot in wet seasons. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.10; lb., \$3.75.

320. Danish Roundhead.

Very Vigorous, Splendid Quality.

An earlier, shorter stemmed, improved strain of the Danish Ballhead Cabbage. The heads are hard, very solid and mature about two weeks before the Ballhead, averaging a little larger and heavier.

The inner leaves are blanched almost pure white, are of sweet flavor, crisp and tender. It is less liable to blight and shows vigorous growth even in the hot Summer. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.10; lb., \$3.75.

405. Long Keeping.

Extra Hardy Sort.

As the name indicates, this variety is a good keeper, and it is also superior as a main crop. It will stand drought and frost to a remarkable degree. Heads are uniform, large, firm and solid, and of very superior flavor; color dark green, with few outside leaves. If placed in a dry, cool cellar or pit, they will keep in excellent condition until well along in the following Summer.

In many large Cabbage growing localities this variety is grown for Winter storage to the almost total exclusion of all others. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.10; lb., \$3.75.

Booklet on Cabbage Culture. A concise, up-to-date, pocket treatise on growing of Cabbage, including soil preparation, sowing seed, cultivation, harvesting, storing and sale. Of value to every grower of Cabbage. It will be sent free with orders, if requested, or will be sent by mail, postage paid, for 5c in stamps.



Danish Roundhead Cabbage.

CARROT

Culture. For the best results the soil should be well worked to a good depth. For early use sow seed in rows 15 inches apart as early in the Spring as the soil can be worked, sowing about 4 lbs. of seed per acre and cover the same with $\frac{1}{2}$ inch of soil; but for main crop, sow about corn planting time, using 3 lbs. of seed per acre and the seed should be covered with nearly an inch of soil. One ounce of seed will sow 100 feet of drill. Make the rows two feet apart to allow for horse cultivation. Keep free from weeds and cultivate occasionally until the roots are large enough for table use and if grown for commercial purposes they may be cultivated with profit throughout the season.

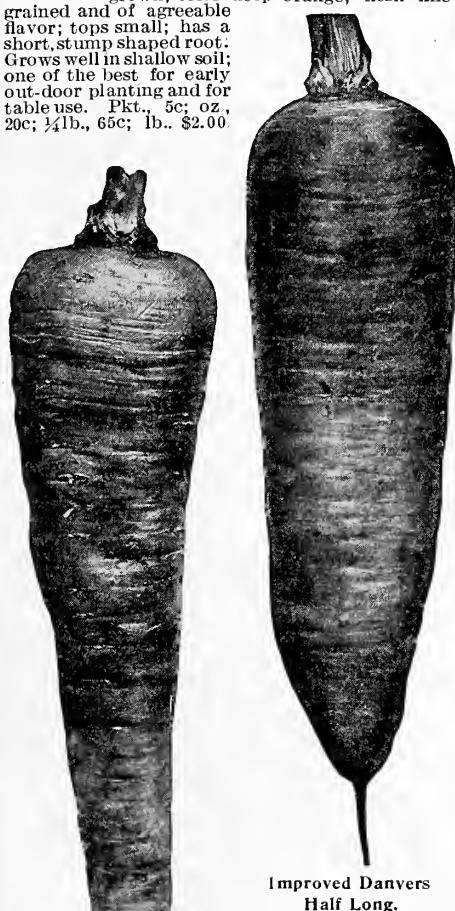
When the plants are 3 inches high thin to 3 inches apart in the row.

410. Northrup, King & Co.'s Chantenay. (STERLING BRAND) packages) As a table variety it is first-class; in shape it is larger than the Scarlet Horn, and also broader at the shoulder. The flesh is of a beautiful, rich orange color and of the finest quality; it is medium early, with small tops. Roots taper slightly, but are uniformly stump rooted. Gives great satisfaction in both the market and private garden. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

415. Chantenay. Regular Stock. Same as is ordinarily sold for Chantenay Carrot. This has not been as highly selected as our Market Gardener's stock, but will give good satisfaction. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

420. Early French Forcing. variety, largely grown for forcing purposes; globular-shaped root of an orange red color. Pkt., 5c; oz., 25c, $\frac{1}{4}$ lb., 75c; lb., \$2.50.

425. Early Scarlet or Short Horn. One of the most popular varieties grown; color deep orange; flesh fine grained and of agreeable flavor; tops small; has a short, stump shaped root. Grows well in shallow soil; one of the best for early out-door planting and for table use. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.



Improved Danvers
Half Long.



Chantenay.

Market Gardener's Stock.
(Sold only in sealed



Half Long
Scarlet Nantes.



Oxheart Guerande.



James Intermediate.

430. Improved Danvers Half Long. Our strain of this popular Carrot, while not as "stump rooted" as the Chautenay, has a root which comes to a blunt point, a very beautiful Carrot. A first-class Carrot for all soils; in form midway between the Long Orange and the Short Horn. The root is of a rich, dark orange color; it is very smooth and heavy yielding, twenty to thirty tons per acre not being an unusual crop. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

435. Improved Long Orange. A well known standard sort; roots long, thickest near the crown, tapering regularly to a point; color deep orange, suitable for the table and main field crop. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

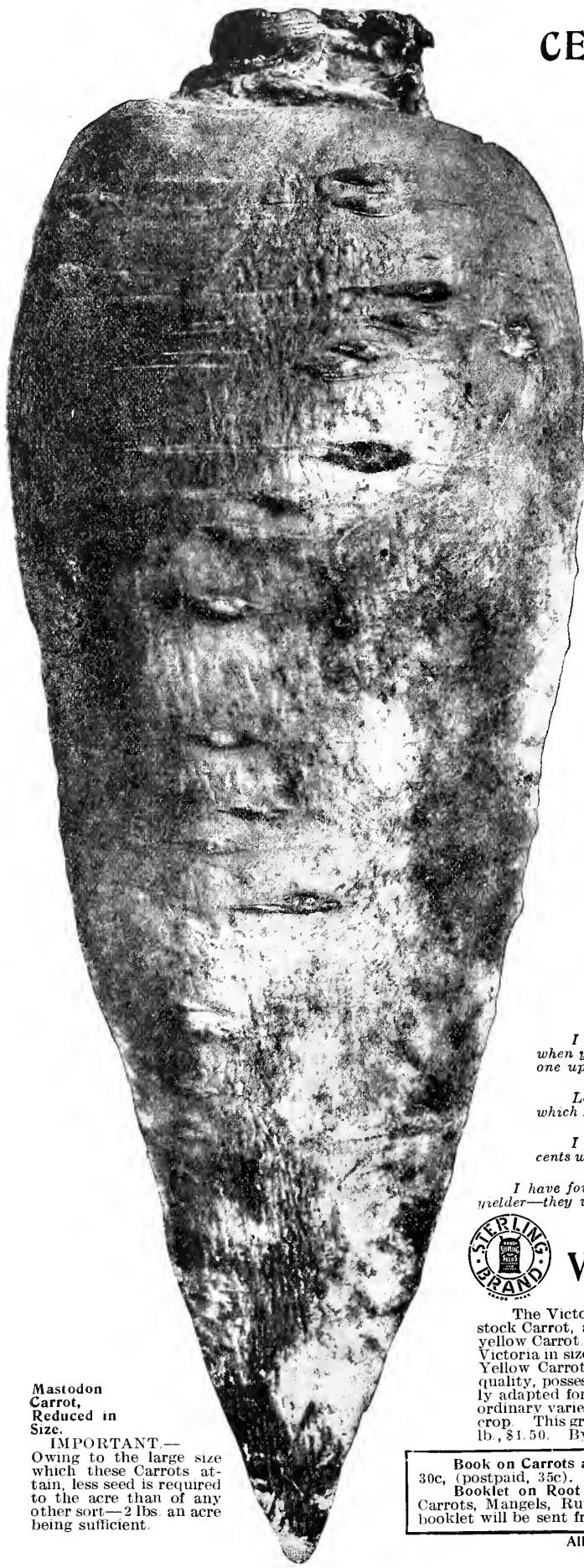
438. James Intermediate. A splendid variety, in shape midway between the half long and the long sorts. It is quite broad at the top and tapers to a blunt point. Flesh is rich reddish-orange, tender and sweet. Very desirable as a market variety, on account of the heavy yield, fine shape and appearance and excellent quality. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

440. Half Long Scarlet Nantes, Stump Rooted. Tops of medium size; roots cylindrical, smooth, bright orange; flesh orange, becoming yellow in center, but with no distinct core. Of the finest quality and one of the most symmetrical and handsome of the medium sized sorts; excellent for the market or home garden. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

445. Oxheart or Guerande. This fine and very popular Carrot is intermediate as to length between the half-long varieties (such as Danvers) and the Scarlet Horn Carrots, but is much thicker than the latter, being at the top from four to five inches in diameter. Flesh bright orange, fine grained and sweet. It is of very fine quality for table use and equally good for stock. Where other sorts require digging, Oxheart can be easily pulled, making it a particularly desirable sort for soils so stiff and hard that other sorts do not grow well. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

"Handbook for the Garden" is the title of a new booklet which includes information on preparing and fertilizing the soil for garden crops, how to make hot-beds and cold frames, transplanting, watering and cultural directions for all vegetable and flower seeds. In it are found also hints on growing roses and shrubs and tables showing quantities of vegetable seeds to sow in a given length of row and per acre. This booklet will be included with your order if requested or will be mailed free to any address. It contains much valuable information in small space.

For home use and early bunching Oxheart, Chantenay and Nantes are the best; for general crop the Danvers Half Long, while for feeding stock the Mastodon yields the largest crops.



Mastodon
Carrot,
Reduced in
Size.

IMPORTANT.—
Owing to the large size
which these Carrots at-
tain, less seed is required
to the acre than of any
other sort—2 lbs. an acre
being sufficient.

450. Northrup, King & Co.'s CELEBRATED MASTODON CARROT

For Feeding Stock.
Sold only in Sealed Packages.



If you are a farmer we want to urge upon you just one thing. It is this—try our Mastodon Carrot. There may be room for difference of opinion regarding many varieties of seeds, but there cannot be room for difference of opinion as to which is the best stock Carrot.

Northrup, King & Co.'s Mastodon Carrot is not, properly speaking, a table Carrot, although the flesh is remarkably firm and sweet. It is not a Carrot for the market gardener, but it is emphatically the Carrot for the farmer, and once used, nothing else will take its place.

Northrup, King & Co.'s Mastodon Carrot is the heaviest cropping Carrot grown, yielding more tons to the acre than any other sort. The flesh is white, crisp and solid and very sweet in flavor. It is a vast improvement on the white and green Belgian sorts which have been favorites in the past, as it is not only much more productive but vastly easier to handle. The roots are short and very heavy at the shoulder, rendering them easily harvested. An important feature, also, is that they do not easily break in pulling or sorting. Too much can scarcely be said of their size and great productiveness. The roots frequently measure 15 to 20 inches in circumference, and 18 to 40 tons to the acre is not an extravagant statement as to yield. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50. By express or freight at purchaser's expense, 5 lbs. or more at \$1.35 per lb.



18 bu. Mastodon Carrots Raised from a 10 cent Package of Seed 18 Bu. for 10 Cents.

I send you a picture showing 18 bushels of your Mastodon Carrots raised from a 10 cent package of seed. Many of the roots weigh over 4 pounds.

F. F. FARAR, Minn.

Thought You Were Fooling.

I bought some of your Mastodon Carrots last year thinking that you were fooling when you said in your catalogue that they would weigh 5 lbs, but I was surprised to pull one up which weighed 7 lbs. 3 oz.

CARL ANDERSON, Minn.

92 Bushels for 25 Cents.

Last year we raised 92 bushels of Mastodon Carrots from 25 cents worth of seed, which I think was an extra good yield.

L. J. JOHNSON, Wis.

115 Bushels for 35 Cents.

I shall want some more of your Mastodon Carrot seed. I raised 115 bushels from 35 cents worth of seed.

F. C. SQUIRES, N. Y.



455. Northrup, King & Co.'s VICTORIA CARROT FOR STOCK

Sold only in Sealed Packages.

The Victoria is a very large and a very rich stock Carrot. There can be only one best stock Carrot, and we think our Mastodon is that Carrot, yet there are many who prefer a yellow Carrot. We can say to such that there is no yellow Carrot which can approach the Victoria in size, in yield and in feeding qualities. It is the largest and best form of Orange or Yellow Carrot known. The roots are remarkably fine, very symmetrical and of excellent quality, possessing high feeding properties. It is a heavy cropper on all soils, but is especially adapted for rich, strong land. It grows nearly half as much weight again an acre as the ordinary varieties, and as the roots grow more above the ground it is much easier to gather the crop. This grand variety is sure to suit every one who grows it. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50. By express or freight at purchaser's expense, 5 lbs. and upwards at \$1.35 per lb.

Book on Carrots and Mangels. By J. H. Gregory. How to raise, store and feed them. Price, 30c, (postpaid, 35c).
Booklet on Root Crops. A small, pocket edition giving in concise form information on Stock Carrots, Mangels, Rutabaga and other roots. Tells how to grow, store and feed them. This booklet will be sent free with orders when requested or will be mailed on receipt of 5c in stamps.

All vegetable and flower seeds sent prepaid except where noted.

CAULIFLOWER

Culture. For early use, seed should be sown $\frac{3}{4}$ of an inch deep in a greenhouse, hot-bed or in boxes in the house, about 6 weeks before the plants are needed for planting out.

If, when the second leaves appear, the plants can be transplanted, spacing them 3 inches apart, better and more hardy plants will be obtained.

As soon as the soil can be worked in the Spring the plants should be removed to the open field and set in rows 2 feet apart each way. Cultivate occasionally to keep out weeds and preserve the moisture in the soil until the plants shade the ground.

For late use sow seed in beds about May 10th and when the plants are large enough remove to the garden, setting them from 2 to $2\frac{1}{2}$ feet each way.

Cultivation must begin as soon as the plants are set in the field, and continued as long as it is possible to get through them with a horse cultivator without doing injury to the plants.

As soon as the heads begin to form, tie the leaves together over the head to keep out the light; by this process nice white heads are obtained.

One ounce of seed will produce about 1000 plants.

460. Northrup, King & Co.'s Model

Sold only in Sealed Packages.

In competition with all other strains the Model Cauliflower has won the approval of critical gardeners, being the earliest and best sort grown. It is suitable not only for early use, but is superior for late planting. The heads are hard and solid and do not spread as do some of the inferior sorts. No other equals it in purity of color, being clear snow white. It is equally desirable for family use and for the market garden. The heads are large—from 9 to 12 inches in diameter, and weigh from 4 to 8 pounds. On account of its close growing, compact habit many more plants may be grown on a given area than of the late spreading sorts. Pkt., 20c; $\frac{1}{4}$ oz., 70c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.25; $\frac{1}{4}$ lb., \$8.00.

465. Northrup, King & Co.'s Drought Resisting.

(Sold only in sealed packages.) Especially adapted to dry locations, where it will produce large, solid heads when all other sorts would fail. To secure the best heads the soil must be rich and thoroughly cultivated. Pkt., 20c; $\frac{1}{4}$ oz., 70c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.25; $\frac{1}{4}$ lb., \$8.00.



Northrup, King & Co.'s Model Cauliflower.

470. Snowball. Forms snow white heads six to ten inches in diameter, of good quality. Its close growing habit permits more heads to a given area than the later maturing sorts. Excellent for both early and late planting. Grown from stock seed obtained from originators. Equal to any strain of 'Snowball' on the market. Pkt., 15c; $\frac{1}{4}$ oz., 65c; $\frac{1}{2}$ oz., \$1.15; oz., \$2.00; $\frac{1}{4}$ lb., \$7.50.

475. Extra Early Dwarf Erfurt. The finest strain procurable. Plants dwarf and compact, forming good sized heads, very fine stock. Pkt., 15c; $\frac{1}{2}$ oz., 75c; oz., \$1.25; $\frac{1}{4}$ lb., \$4.00; lb., \$15.00.

482. Extra Early Paris. A popular and early heading variety. Heads are solid and very uniform but not considered as sure heading as the Erfurt type. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50; lb., \$5.00.

Cauliflower Plants. For early and late plants see page 90.

CRESS

Culture. Sow seed thickly in shallow drills 12 inches apart, in the Spring, and for a succession every two weeks.

One ounce of seed required for 200 feet of drill.

Water Cress. Sow the seed in cool, moist soil in the early Spring or if a shallow slow running stream or ditch is near, the seed may be sown within the same near the bank. When sown in a location of this kind it grows luxuriantly for years.

485. Fine Curled (Pepper Grass.) Quick growing; like parsley; growth dwarf and compact, crisp and pungent. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

490. Water Cress. Highly esteemed as a salad; also used as a garnish for meats. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50; lb., \$5.00.

495. CHIVES

Chives are perfectly hardy perennial plants of the onion type. They are grown for the small leaves which come up very early in the Spring and give a mild onion flavor to food in which they are placed. The tops may be cut off as close to the ground as desired. Pkt., 10c; $\frac{1}{4}$ oz., 15c; $\frac{1}{2}$ oz., 30c; oz., 50c. For roots see page 90.

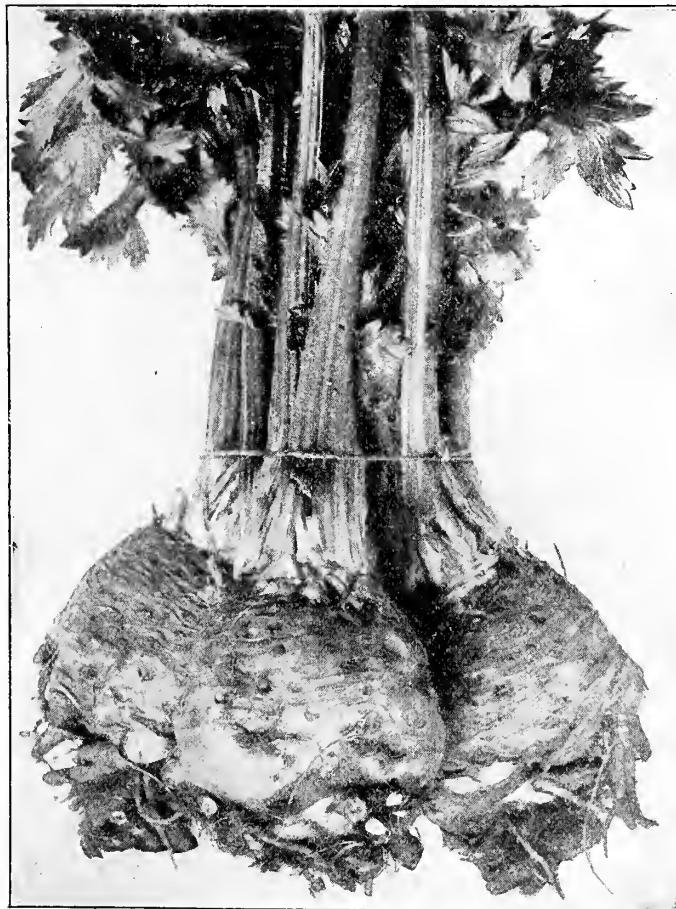
CELERIAC

(Turnip Rooted Celery)

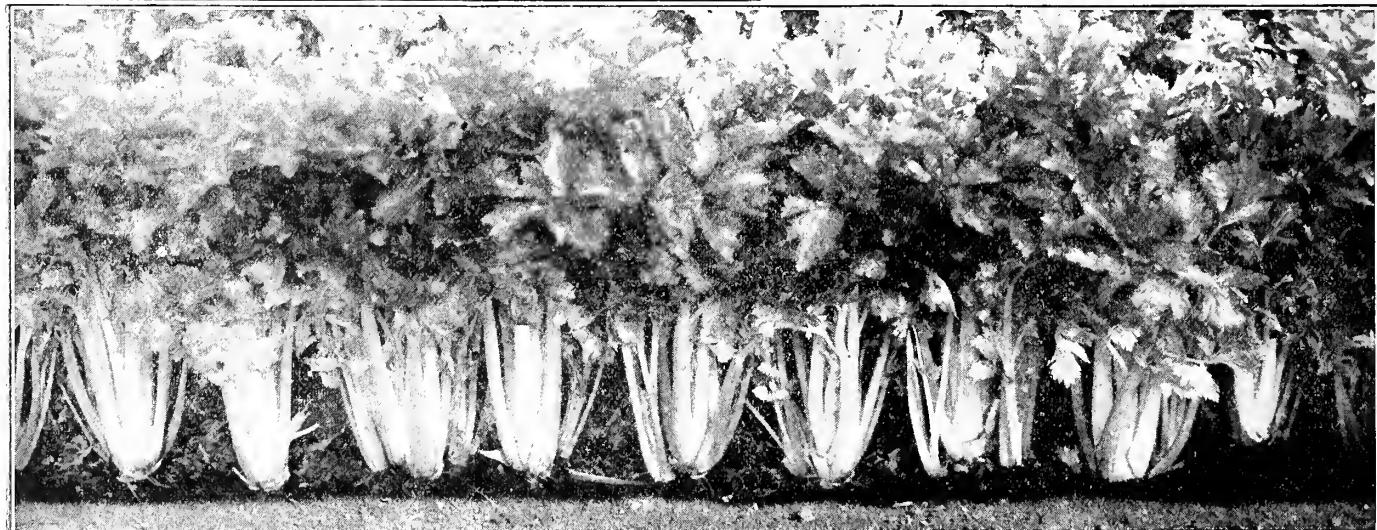
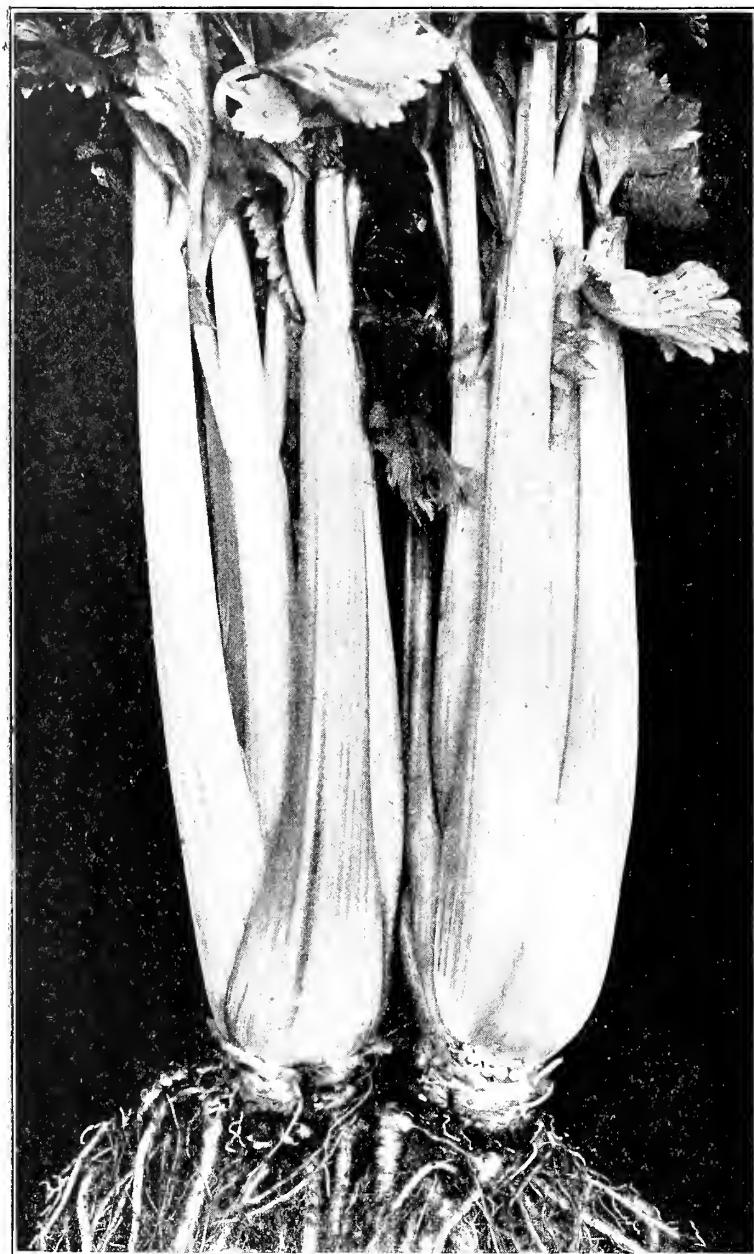
Culture. Treat seeds and plants the same as recommended for celery with the exception that it is customary to set the Celeriac plants in rows 1 foot apart. The roots are preserved for use in Winter by storing in moist sand in the cellar.

One ounce seed for 1,000 plants.

500. Large Erfurt. Large, smooth, excellent flavor. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 85c; lb., \$2.75.



Celeriac or Turnip Rooted Celery.



Northrup, King & Co.'s Golden Self Blanching Celery.

CELERY

Culture. Sow seed in the garden, as early in the Spring as the soil can be worked. Cover the seed lightly and firm well.

Keep the bed moist to insure quick germination and growth.

Before setting out the plants shear off the top leaves, which makes stocky plants with a tendency to spread out.

When ready, set plants 6 to 8 inches apart in rows 3 to 4 feet apart, according to variety and soil. When the roots of the Celery plants are very long it is advisable to trim them off just before setting to about 3 inches.

Cultivate well until the middle of August, then, work up the soil between the rows around plants from time to time until plants are covered and they will soon be ready for use.

When desired for winter use it should not be bleached in the field, but enough soil should be drawn about it to secure an erect habit of growth and transferred to the cellar prior to settled cold weather.

One ounce of seed will produce about 3,000 plants.

505. Northrup, King & Co.'s Golden Self Blanching.

This splendid variety is without doubt the most popular Celery grown. It is a self-blanching sort, for with a little banking or covering, even the outer ribs assume a beautiful golden yellow, while the heart or vine stalks are deliciously tender, brittle and sweet. This variety is very extensively grown both for market and private use, not only on account of its ease of culture, but for its superior quality. It is not quite so early as the White Plume, but is of heavier and more compact growth, the stalks being thick, crisp and brittle. The hearts are large and solid, blanching a beautiful waxen yellow. It is tender and sweet and free from stringiness; flavor rich.

Our Private Stock seed is procured from a noted Celery grower in France. The American grown seed is often as good as any produced in France, but we have sometimes been disappointed in the quality, while the seed produced in France has never failed us. For that reason we offer both strains.

Our Private Stock seed is sold only in sealed packages. Large pkt., 25c; oz., \$2.00; $\frac{1}{4}$ lb., \$7.00.

510. Golden Self Blanching, American Grown.

This is the same variety as our Private Stock seed but is American grown. It gives good results as a rule but we do not recommend it so highly as our French grown seed. Pkt., 10c; oz., 80c; $\frac{1}{4}$ lb., \$2.25; lb., \$8.00.

515. Northrup, King & Co.'s Kalamazoo.

(Sold only in sealed packages.) We consider our Kalamazoo absolutely and without exception the very best Celery grown. It is late, it is not self-blanching, but it is worth many times over, all the extra trouble and labor involved in growing it. Kalamazoo Celery, when properly grown, is extremely large, solid and crisp, and possesses a rich sweet and "nutty" flavor unequaled by any Celery we have ever seen. It is a fine keeper. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

520. White Plume. The earliest Celery. This is a well known variety. Popular on account of its earliness and the ease of its culture. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

530. Golden Hearted Dwarf. A favorite main crop variety. When blanched the stalks are of a wavy yellow color, solid and crisp. A splendid keeper. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

535. Giant Pascal. One of the most popular sorts for Winter use. It is very large in growth, the stalks are exceptionally thick with very heavy hearts which, when blanched, are of a beautiful creamy yellow color. Very brittle, superb flavor. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

537. Winter Queen. A very fine variety for Winter storage. Robust, stocky growth, requiring but little labor in blanching. The heart stalks are heavy, broad and solid, but crisp and tender, blanching to a rich, creamy-white. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

Celery Plants. Early and late, see page 90.

SWEET CORN

Market gardeners and private planters should keep in mind the important fact that Sweet Corn produced in the North is earlier and more hardy than the same varieties grown farther south. We do not think it too much to claim that nearly all of our varieties of Sweet Corn are easily a week to ten days earlier than the same varieties produced elsewhere. This means a great deal to the gardener who wishes to have his Corn first in market, for it is then that the best prices are obtained. It is equally as important also to the private planter growing Corn for his own table, as it lengthens the season for all varieties.

One lb., of seed will plant about 100 hills; 12 to 15 lbs., an acre in hills. The Minnesota State Law designates 48 lbs. as a bu. of Sweet Corn.

The Two Best Early Varieties of Sweet Corn

545. Golden Bantam.

Should be grown in every garden.

Everyone likes to eat Golden Bantam Corn. In fact many people will not take any other when Golden Bantam is obtainable.

Quality. The flavor is deliciously distinct, superior to that of any other corn. Of all varieties the name "Sugar Corn" seems to fit this best, as it is so unusually sweet. The decided preference shown for it in market, restaurant and home has enabled many growers to sell Golden Bantam at a premium. It is so unique in appearance that all who have ever enjoyed the golden yellow ears recognize them instantly. One cannot forget such splendid quality.

Habit of Growth. Another good feature of this Corn is the character of its growth. The stalks are usually 4 to 5 feet high, with short foliage. Being small they can stand very close together and thus produce a large crop on a very small area.

The ears average more than one to the stalk; they are 6 to 7 inches long, just the right size to serve at the table. The kernels are tender, very wide and of good depth while the cob is small. There are 8 to 12 rows of kernels on each ear. Golden Bantam ears are enclosed in a heavy husk, protecting them against insects and disease.

For the Home Garden. The best way to get good Sweet Corn is to raise it yourself. Then you can be sure that it is fresh and picked at just the right time. This is of the greatest importance since if it is picked too early it is watery and tasteless, if too late the hulls become tough. However Golden Bantam remains in condition for eating an unusually long time.

No Sweet Corn is better adapted to the home garden than Golden Bantam since its slender growth requires little space and it matures in such a short season that some other crop can be raised on the same ground either before the latest planting or after removing the earliest.

Earliness. In season Golden Bantam is about six days earlier than Peep o' Day, but on account of the superior quality of the yellow Corn many start it indoors in April and transplant it later to the garden. By this method Golden Bantam is ready for use in early Summer. It may be sown out-doors from the end of May to July tenth. For succession, plant at ten day intervals, and thus produce the finest Sweet Corn from early Summer until frost.

Hardiness. Especially adapted for Northern planting, on account of its hardiness and ability to withstand unfavorable weather. Not only is it adapted for planting in the extreme North, but is meeting with unusual success in the middle and southern states. It may be planted late in the Summer for early fall use. In high altitudes where many other varieties will not mature on account of the cold nights or early frost, this variety proves successful.

Northrup, King & Co.'s Strain. Our Golden Bantam Sweet Corn is all grown in Minnesota under the personal supervision of our experts. Here, in the North, the growing season is short so Corn must mature earlier than it does farther south. Consequently Northrup, King & Co.'s Strain of Golden Bantam is the earliest known. It is the best to plant in high altitudes or northern regions—wherever the growing season is short. Earliness counts in the middle states, too, where a few days often makes a big difference in the market gardener's profit, so we confidently recommend our strain for planting there also. We carefully select all ears before shelling and our stocks are the very finest obtainable.

That this strain is popular is proved by the fact that we usually sell enough Golden Bantam to seed 40,000 acres, shipping it to all parts of the country. New England alone uses a carload—New England, where most of our Sweet Corns originated. There if anywhere they know what good Sweet Corn is and so they come to the Northwest for their seed, convinced that here only can they secure the earliest and best strain.

Price for Golden Bantam Sweet Corn. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 40c; 5 lbs., \$1.85; 10 lbs., \$3.25; 25 lbs., \$7.25.

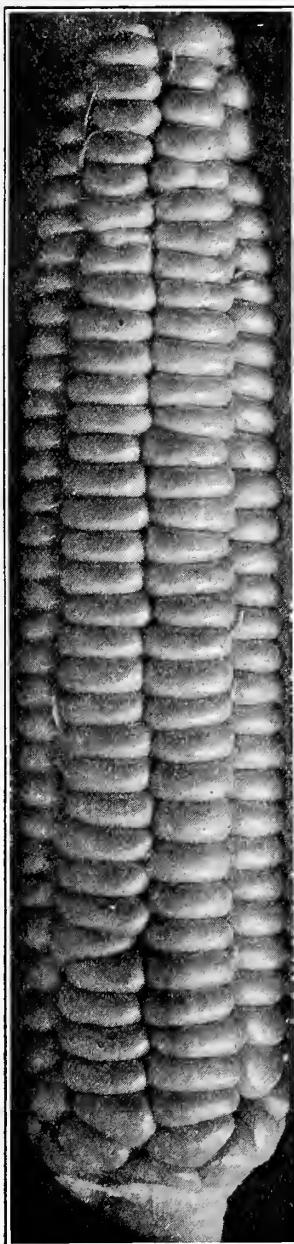
Facts About Both Varieties.

Satisfaction. We have yet to hear of a grower who has planted our Peep o' Day or Golden Bantam Sweet Corns and was not well pleased with them when weather and climate were favorable. From all points come letters from pleased customers.

Culture. The stalks, being short and small and having few leaves, may stand very close together. The seed may be planted either in hills or in rows. If the former, plant six or seven kernels in a hill, thinning out well so as to have four plants in each hill. If in rows and not in hills, drop the seed from six to eight inches apart, according to the soil, and if planted early cover about one inch deep. Seed planted later should be planted deeper, according to the amount of moisture in the soil. The rows may be just far enough apart to admit of cultivation. Twenty to fifteen lbs. of seed will plant an acre. Prepare the land thoroughly, making it deep and mellow. For early Corn, plant just as soon as danger of frost is over, bearing in mind that it is sometimes well to take a risk in early planting as early Corn is always in greatest demand.

It should be borne in mind that Minnesota grown Sweet Corn is at least two weeks earlier and much harder than seed produced in any other section.

Order Early. It will be a great convenience both to our customers and to ourselves if all orders are sent to us early. This will insure their being filled immediately from the choice of our stocks.



Golden Bantam Sweet Corn.

Note—For succession, plant Golden Bantam for earliest; Peep o'Day for second early, Portland for medium; Northrup, King & Co.'s Zig Zag Evergreen or Improved Black Mexican for late, and secure the very best Sweet Corn in each class.

To have the finest Sweet Corn it must be picked in just the right condition, that is, when the skin of the grain breaks at the slightest puncture. It will be of inferior quality if it is either a few days too old or too young.

Our Sweet Corn is thoroughly tested before it leaves our hands.

Prices. At the following prices on Corn—packets and quarter pounds are sent prepaid, all larger quantities are shipped at purchaser's expense; if wanted by parcel post add postage at rates on page one.

540. Northrup, King & Co.'s Peep o'Day.

(Sold only in sealed packages.)

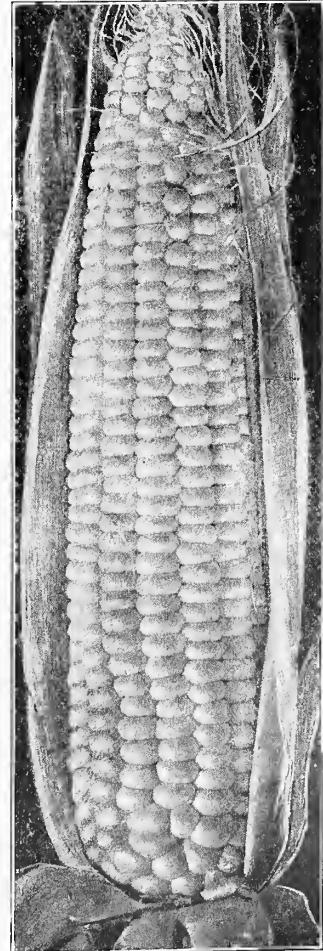
In Peep o'Day Sweet Corn we offer a variety which we believe to be earlier than any other Sweet Corn grown except Golden Bantam. There is no product of the garden which is so eagerly awaited as the first Sweet Corn of the season. Not the tasteless, discouraged, premature Corn shipped from long distances, of little value when picked and unfit for human food when it arrives, but the real, tender, juicy Sweet Corn, ready for use before the Summer has really commenced. Such a Sweet Corn is Northrup, King & Co.'s Peep o'Day. Not only is it early, but it is sweet and delicate in flavor, being excelled in this respect by no other early Sweet Corn except Golden Bantam. Kernels are pure pearly white.

On account of its extreme earliness Peep o'Day Sweet Corn is especially adapted for planting in northern latitudes and in high altitudes where other varieties fail entirely. Peep o'Day produces a large number of "suckers" which, unlike other varieties, produce full sized, well formed ears. It is not unusual to find a single plant bearing from four to five ears. The yield per acre is therefore very large.

The stalks grow $3\frac{1}{2}$ to $4\frac{1}{2}$ feet in height, and having light foliage may stand very close together. The ears are small, 5 to 6 inches in length. The kernels, though not large are of good substance and borne 8 to 12 rows to the ear.

Prices of Northrup, King & Co.'s Peep o'Day Sweet Corn, Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c; 5 lbs., \$1.35, 10 lbs., \$2.50; 25 lbs., \$5.65; 50 lbs., \$10.00.

Boys, here is your chance to make money! Obtain the use of an acre or half acre of ground or vacant lot and convert it into a Sweet Corn farm. It will surprise you to find how many people in your neighborhood are really hungry for good Sweet Corn, and how gladly they will purchase it from you.



Northrup, King & Co.'s Peep o' Day Sweet Corn.

SWEET CORN

At the following prices on Sweet Corn, packets and quarter lb. lots are sent prepaid, all larger quantities at purchaser's expense; if wanted by parcel post add postage at rates on page one.

Culture. Sow upon arrival of warm weather in drills 2 inches deep, 3 to 4 feet apart, according to variety, placing the seeds 8 inches apart in drills or 6 seeds in hills 3 to 4 feet apart each way. Cultivate to keep free from weeds and when Corn is well started thin to 4 stalks to the hill.

Plant early varieties in succession, or sow early, second early and late sorts at one time, which will continue the season for several weeks. One bushel of seed will plant from 3 1/2 to 4 acres.

The Minnesota State Law designates 48 lbs. as a bushel of Sweet Corn.

EXTRA EARLY VARIETIES

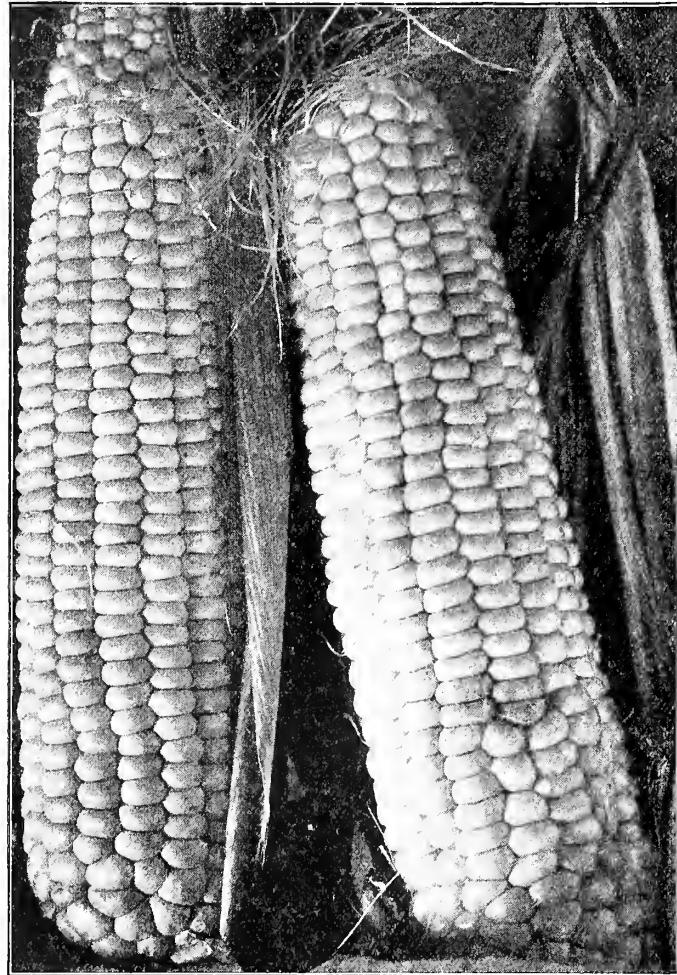
550. Early Minnesota. A standard early sort of excellent quality, especially desirable where seasons are short. The ears bear 8 to 10 rows of large, white grains. This variety is popular on account of its great productiveness. Excellent for market, home and canning use. Pkt., 5c; 1/4 lb., 10c; lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.65; 50 lbs., \$10.00; 100 lbs., \$18.00.

555. Early Red Cory. Equally as early as White Cory. Corn is white but the cobs are red. Very sweet and tender. Pkt., 5c; 1/4 lb., 10c; lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.65; 50 lbs., \$10.00; 100 lbs., \$18.00.

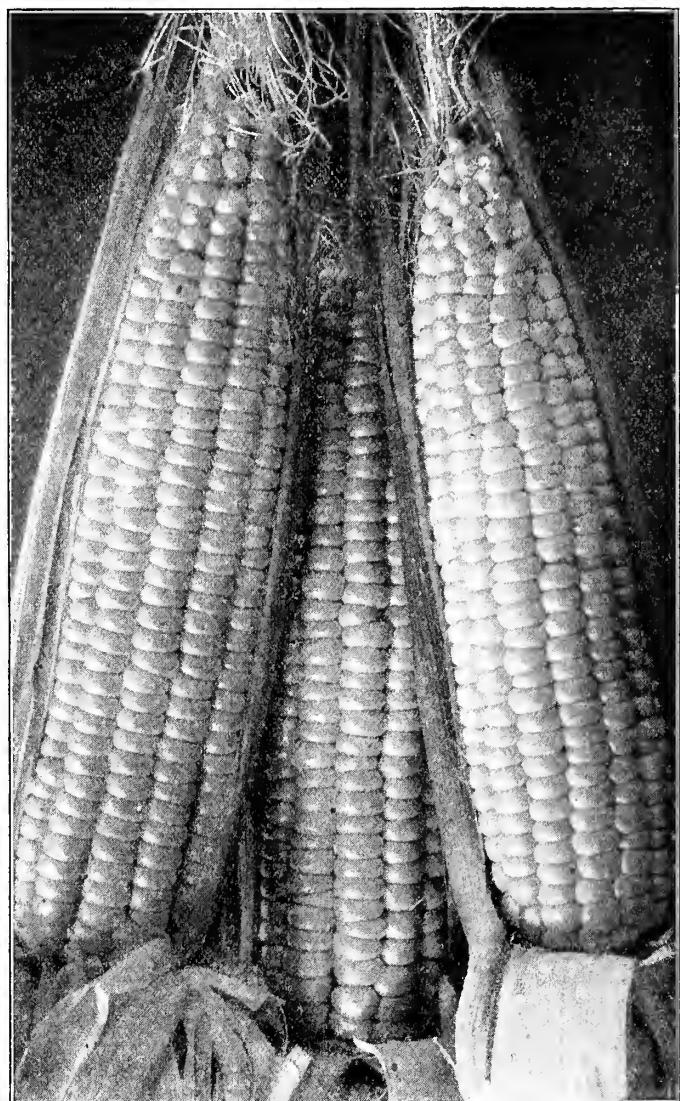
560. Extra Early White Cory. One of the earliest varieties, well and favorably known in all parts of the country. It succeeds well where the seasons are short, and can be recommended for general planting. Ears six inches long, with eight rows of broad grains. Pkt., 5c; 1/4 lb., 10c; lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.65; 50 lbs., \$10.00; 100 lbs., \$18.00.

562. Extra Early White Mexican. As sweet and delicious as Black Mexican and as early as White Cory. Stalks 4 1/2 ft. high. Ears eight inches long, usually eight rowed. Superior in quality to any early variety of equal size. Pkt., 5c; 1/4 lb., 10c; lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.65; 50 lbs., \$10.00; 100 lbs., \$18.00.

564. Howling Mob. This variety originated at Toledo, Ohio, and its queer but appropriate name has reference to the loud and clamorous demand for the Corn when brought to market. The stalks are usually about 5 feet in height and produce early in the season two splendid ears to a stalk. The ears are 7 to 9 inches in length and are well covered with a heavy husk, affording protection from the green worms which so often are destructive to early varieties. There are 12 to 24 rows of good sized white kernels. Pkt., 5c; 1/4 lb., 15c; lb., 35c; 5 lbs., \$1.60; 10 lbs., \$2.75; 25 lbs., \$6.25; 50 lbs., \$11.25; 100 lbs., \$22.50.



Early Minnesota Sweet Corn.



Northrup, King & Co.'s Portland Sweet Corn.

575. Mammoth White Cory. Similar to Early Cory, quite as early. The kernels, however, are somewhat broader and the ears average somewhat larger in size. Pkt., 5c; 1/4 lb., 10c; lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.65; 50 lbs., \$10.00; 100 lbs., \$18.00.

578. Pocahontas. An exceptionally early variety. The growth is very uniform and the ears are evenly and compactly filled with broad, white kernels which are tender, sweet and of very fine quality for so early a variety. Pkt., 5c; 1/4 lb., 15c; lb., 35c; 5 lbs., \$1.60; 10 lbs., \$2.75; 25 lbs., \$6.25; 50 lbs., \$11.25; 100 lbs., \$22.50.

SECOND EARLY VARIETIES

585. Northrup, King & Co.'s Portland. (Sold only in sealed bags.) This variety is not quite so early as the Cory, but it will pay Sweet Corn growers to wait a few days for it. Private families pronounce it unsurpassed; market gardeners capture trade with it. Pkt., 5c; 1/4 lb., 15c; lb., 35c; 5 lbs., \$1.60; 10 lbs., \$2.75; 25 lbs., \$6.25; 50 lbs., \$11.25; 100 lbs., \$22.50.

590. Early Crosby. A standard sort deservedly prized by thousands of planters as one of the sweetest of varieties. The kernels are very closely set. This strain is superior to any variety of Sweet Corn grown for canning purposes in the state of Minnesota. Pkt., 5c; 1/4 lb., 15c; lb., 35c; 5 lbs., \$1.60; 10 lbs., \$2.75; 25 lbs., \$6.25; 50 lbs., \$11.25; 100 lbs., \$22.50.

592. Early Evergreen. This fine variety is ten to twelve days earlier than Stowell's Evergreen and yields large, handsome, ten or twelve-rowed ears. An excellent variety to follow Mammoth White Cory. Pkt., 5c; 1/4 lb., 15c; lb., 35c; 5 lbs., \$1.60; 10 lbs., \$2.75; 25 lbs., \$6.25; 50 lbs., \$11.25; 100 lbs., \$22.50.

595. Perry's Hybrid. A well known and favorite sort, valued on account of its hardness, productiveness and size of ears. Pkt., 5c; 1/4 lb., 10c; lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.65; 50 lbs., \$10.00; 100 lbs., \$18.00.

600. White Evergreen. This variety is a little earlier than Stowell's Evergreen and is pure white in color. The stalks are of strong, vigorous growth from six to seven feet high. The ears are very large and well filled to the tip with long, slender, pure white grains of the finest flavor. Pkt., 5c; 1/4 lb., 15c; lb., 35c; 5 lbs., \$1.60; 10 lbs., \$2.75; 25 lbs., \$6.25; 50 lbs., \$11.25; 100 lbs., \$22.50.

SWEET CORN

LATE VARIETIES.

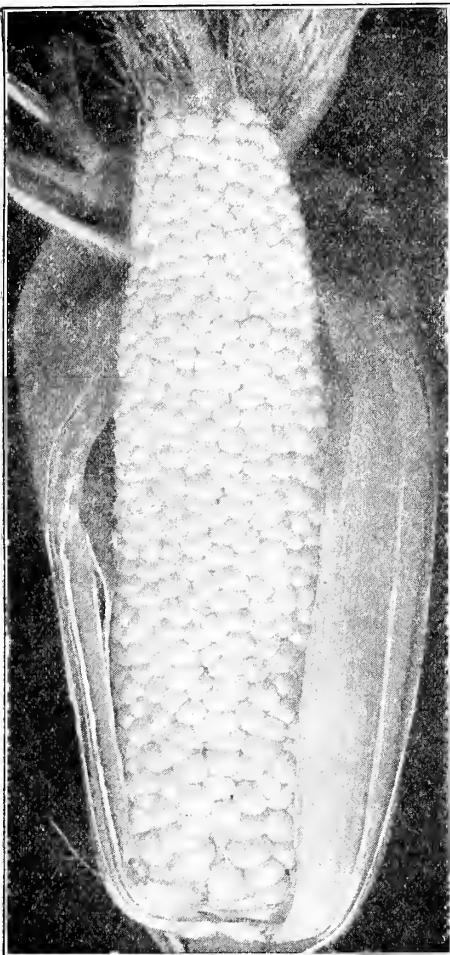
605. NORTHRUP, KING & CO.'S ZIG ZAG EVERGREEN.

(**Sold only in sealed bags.**) The very best of all late white varieties. We have statements from experiment stations and from canning factories, as well as from hundreds of private planters, testifying to its superior sweetness and productiveness, incomparable whiteness when cooked and fine appearance on the table. As introducers of this variety, we assert, without fear of contradiction, that it is best of all the late white sorts. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.60; 10 lbs., \$2.75; 25 lbs., \$6.25; 50 lbs., \$11.25; 100 lbs., \$22.50.

610. STOWELL'S EVERGREEN.

The best known and most largely planted of all the varieties. We are free to confess that Northrup, King & Co.'s Zig Zag Evergreen possesses all of the good qualities which have made the Stowell's strain so popular. At the same time, the Stowell's Evergreen is hard to beat and for a long time to come many will have it in preference to any other sort. This Corn is distinguished by the large ear, the long, deep kernels, its rich, sugary flavor and its long-keeping qualities. Our seed has been selected for its sweetness, productiveness and large size. Pkt. 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.60; 10 lbs., \$2.75; 25 lbs., \$6.25; 50 lbs., \$11.25; 100 lbs., \$22.50.

Please note prices on Sweet Corn are prepaid only on packets and quarter pound lots. Postage rates given on page one.



Country Gentleman Sweet Corn.

615. COUNTRY GENTLEMAN.

This variety is often called the "shoe peg" Corn, owing to the arrangement of the crowded kernels, which are long and very sweet. Our seed of this variety has been carefully selected and is true to name. It is nearly as sweet as Peep o' Day and is far ahead in flavor of any of the late varieties. It remains tender and fit for use longer than most sorts, as the ear is enclosed in a thick husk which keeps it "in the milk." The ears average nine inches in length and are borne from two to five and sometimes six on each stalk. The cob is small and very closely packed from tip to butt with slender, pure white kernels of the finest quality. If you try this variety you will like it. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 40c; 5 lbs., \$1.85; 10 lbs., \$3.25; 25 lbs., \$7.25.

620. IMPROVED BLACK MEXICAN.

This variety has for a number of years had the reputation of being the sweetest of all Sweet Corn. When cooked, the ear is white with a bluish tinge towards the base of the kernel. Every year we have a number of inquiries from those who have known this Corn, but who have forgotten its name and remember it only as the "black Corn that was so very sweet." We offer a highly superior strain of this very desirable and much sought after sort. It must still rank with us as a late variety, but as it now matures nicely in Minnesota, it may be safely grown in almost any part of the United States. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.65; 50 lbs., \$10.00; 100 lbs., \$18.00.

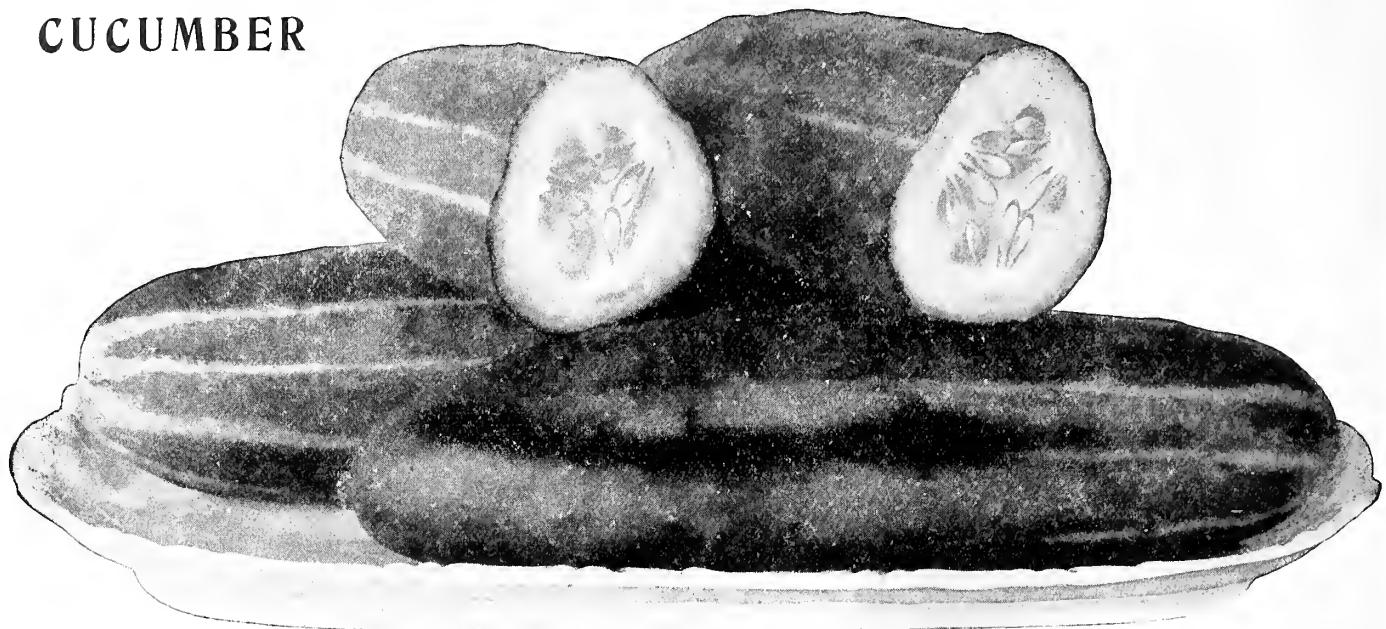
622. LATE MAMMOTH.

Rather late, producing the largest ears of any variety; often 14 inches in length and filled with large, broad, white kernels which are sweet, tender and delicious. Usually there are 16 to 18 rows to the ear. The stalks are very large. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.60; 10 lbs., \$2.75; 25 lbs., \$6.25; 50 lbs., \$11.25; 100 lbs., \$22.50.



Gathering a Profitable Sweet Corn Crop.

CUCUMBER



Northrup, King & Co.'s Sterling Cucumber.

Culture. Plant the seed $\frac{1}{4}$ of an inch deep in hills 4 to 6 feet apart each way, according to the variety, about corn planting time, allowing 10 seeds to the hill. As soon as the plants commence to run, remove all but 3 or 4 of the most promising ones in each hill. Cultivate frequently as long as the vines will permit. The seed may also be started in old berry boxes by placing them in the hot-bed. When the weather is suitable—settled and warm—remove the box as the plants are placed in the garden. The fruit should be gathered as soon as large enough for use, if it is not, the productiveness of the vines will be permanently injured.

One ounce required for 60 hills; two to three pounds per acre.

625. Northrup, King & Co.'s Sterling.

Sold only in Sealed Packages.

Will be found to possess the following points of superiority:

First. It is the earliest white spine Cucumber, suitable for table, market or shipping purposes, under all conditions of culture, whether under glass or in the open ground.

Second. It is one of the greatest producers of all varieties; and at all stages of growth is the handsomest and most attractive of all American sorts.

Third. It is of a very deep green color, which it retains during a much longer period of growth than any other variety, while in symmetry of form it is so regular, so uniformly one like the other as to create comment wherever it is seen.

Fourth. The quality is superb, being exceedingly brittle and crisp. The flavor is delicate and entirely devoid of the bitter taste so frequently noticed in other varieties.

Fifth. As a shipping Cucumber, the "Sterling" cannot be surpassed, as it holds up in color and quality better than any other variety.

Price, pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

635. Ak=sar=ben. One of the finest strains of white spine Cucumbers; vigorous and prolific. Fruit is uniform in size, averaging eight to ten inches long, dark green in color and handsome in appearance. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

640. Boston Pickling. Very productive, grown largely for pickles. Fruit medium sized, very smooth, bright green. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

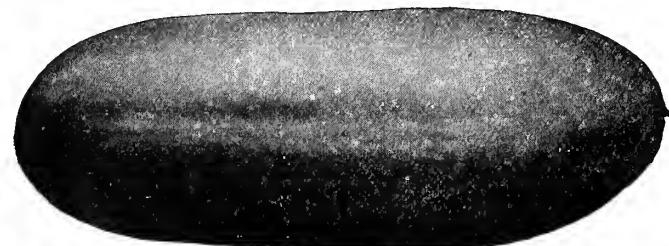
645. Chicago or Westerfield Pickling. Fine for market gardeners. Medium length, pointed at each end; has large spines, deep green, very prolific. Good for pickling. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

650. Cool and Crisp. A strain of white spine similar to the Arlington but larger. Fruit long, cylindrical, dark green. Fine for table use. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

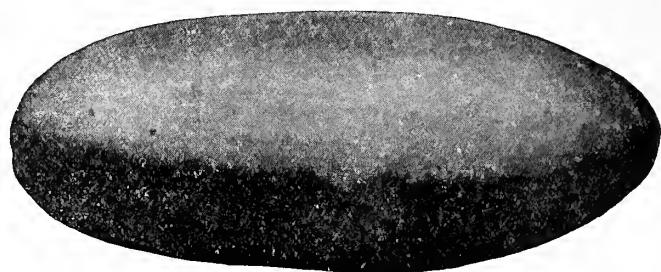
655. Davis Perfect. A carefully selected strain of Extra Long White Spine, suitable for both green-house and outdoor culture. The fruits are of large size, splendid quality and fine color. The flesh is tender, brittle and of excellent flavor. A favorite for market use. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

For illustration see following page.

660. Early Frame or Short Green. Used for table and pickling. Very productive. Fruit straight, bright green. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.



Boston Pickling Cucumber.



Early Green Cluster Cucumber.

665. Early Green Cluster. Fruit small, grows in clusters of two or three, very prolific, short, dark-green. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.



Northrup, King & Co.'s Extra Long White Spine Cucumbers.



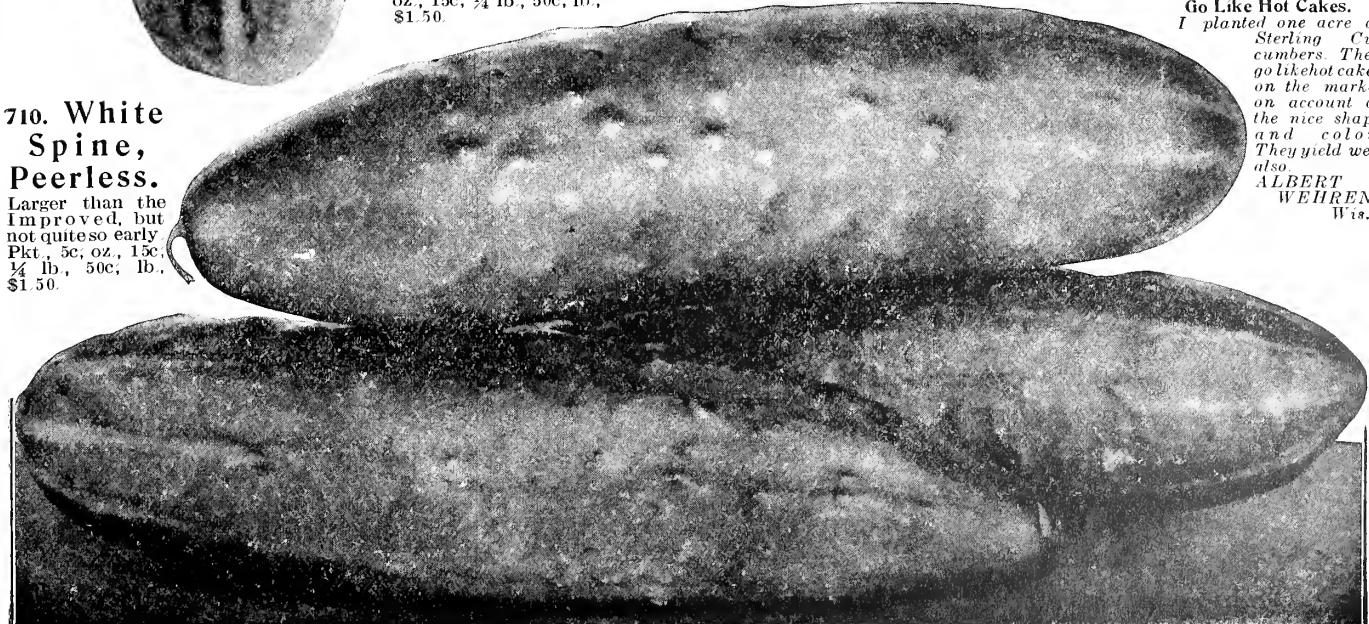
630. Northrup, King & Co.'s Extra Long White Spine. (Sold only in sealed packages.) An extra fine variety for either green-house or open ground. It grows to a large size in a very short time and commands fancy prices on account of its fine form and appearance. The above illustration is an interior view of a green-house in which this variety is grown during the Fall and Winter, with the most satisfactory results. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$1.75.



705. **White Spine, Improved.** Large, handsome, uniform fruits. Crisp and of fine flavor. Pkt., 5c, oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

710. White Spine, Peerless.

Larger than the Improved, but not quite so early. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.



CUCUMBER

668. **Green Prolific.** Very productive, planted both for slicing and pickling. Four or five inches long when large enough to slice. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

670. **Improved Arlington White Spine.** The fruit is uniform in size and shape averaging 7 to 8 inches long. Color dark green, quality excellent and contains but few seeds. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

675. **Japanese Climbing.** A vigorous grower, can be trained on a trellis. Fruit from 12 to 16 inches long, dark green and smooth. Flesh pure white, crisp and tender. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

680. **Klondike.** One of the best varieties for slicing. It will produce handsome, very dark green fruits slightly striped at the ends, equal in appearance to hot-house specimens. A white spined Cucumber of medium early maturity, fruits averaging about eight inches in length and two inches in diameter, uniform in size and shape.

The vines are very hardy and productive and continue long in bearing. Market gardeners find this variety especially desirable because it retains its dark green color much longer and is less affected by the hot sun than most other sorts. Much used as a shipping Cucumber, but is also adapted for the home garden. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

685. **Long Green.** Produces dark-green fruit from 10 to 14 inches long. Flesh solid, crisp and of fine quality. Fine for slicing and pickling. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

690. Northrup, King & Co.'s Pickling.

(Sold only in sealed packages) It would be difficult to "make to order" a better pickling cucumber than this. Fruit is medium length, pointed at each end, color deep green. It is very productive. Flesh, crisp and tender, and covered with spines. The best sort for those who like a crisp, tender pickle. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

695. Northrup, King & Co.'s Siberian.

(Sold only in sealed packages) The earliest. Fruits are small, being about 3 inches in length and $1\frac{1}{2}$ inches in diameter. Plants productive and fruits of excellent quality. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

Best I Ever Saw.

I think your Siberian Cucumber is the best I ever saw in this locality. IRA WARD, Wash.

697. West Indian Gherkin

or Burr Cucumber. Small, oval, green fruits about two inches long. They are covered with soft, fleshy spines. This variety is used only for pickling. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

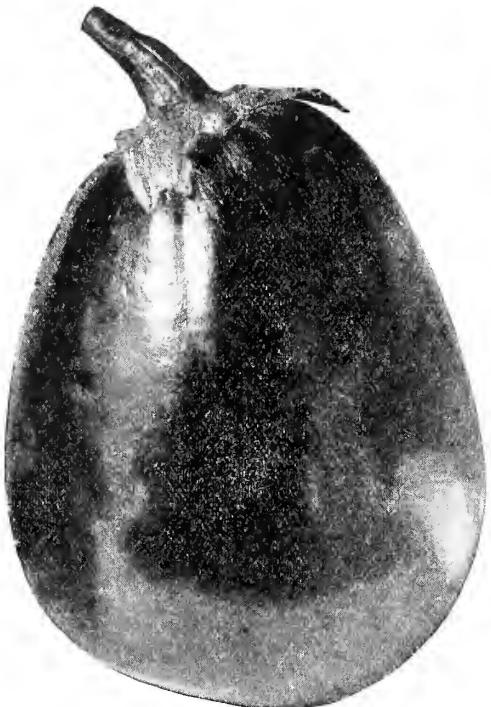
Northrup, King & Co.'s Pickling Cucumber.

700. White Spine Evergreen.

(Northrup, King & Co.'s Special Strain.) A fine strain, bearing blue green fruit, often from 10 to 12 inches in length, smooth, round and of fine quality. Especially recommended for hot-bed culture. The seed we offer has been taken from fruit selected for its ideal form, uniformity in size, shape and color and general appearance. A very satisfactory variety in every way. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

Go Like Hot Cakes.
I planted one acre of Sterling Cucumbers. They go like hot cakes on the market on account of the nice shape and color. They yield well also.

ALBERT WEHREN, Wis.



Northrup, King & Co.'s Improved New York Spineless Egg Plant.

720. Green Curled. Leaves finely cut. Pkt., \$1.50.

725. White Curled. Very beautiful, leaves 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

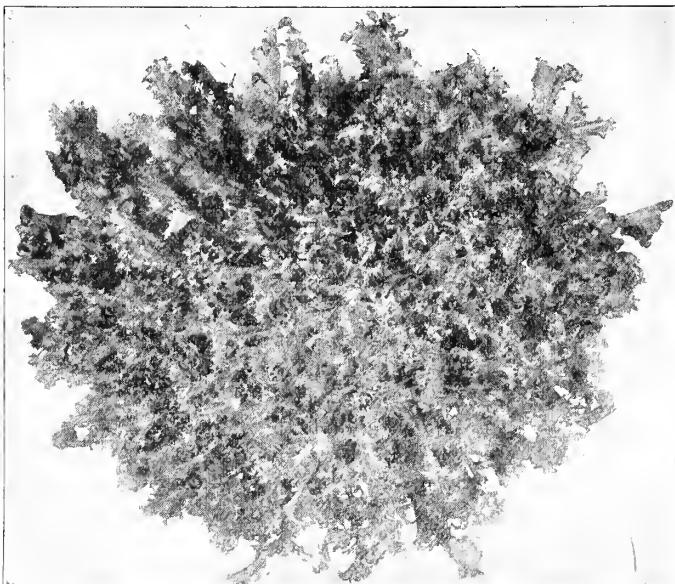
739. GARLIC.

About 250 lbs. required per acre.

Garlic is a perennial plant with a bulbous root and belongs to the Onion family. It has flat leaves and the bulb is composed of several parts or bulbels similar to those of a multiplier onion set. Garlic has a strong penetrating odor and flavor and is highly esteemed for flavoring soups, stews, etc. We cannot offer seeds but can supply the bulbs or sets.

Prepare the ground as for onions, separate the sets and plant them in drills eight inches apart and four to six inches apart in the drill, covering two inches deep. Cultivate like onion sets. When the leaves turn yellow, pull up the bulbs and dry in the shade.

Prices of well cured bulbs, by express or freight at purchaser's expense, 1b., 35c; 5 lbs. or more at 30c per lb. If wanted by parcel post add 10c per lb. to cover extra cost.



White Curled Endive.



Culture. Egg Plant seed should be sown in hot-beds in March or April and transferred to pots or boxes when an inch or two high and planted out early in June in rows $2\frac{1}{2}$ feet apart each way, cultivation same as for cabbage. One-fourth pound seed will provide plants for one acre. For plants see page 90.

715. Northrup, King & Co.'s Improved New York Spineless.

Sold only in Sealed Packages.

The handsomest type and most perfect strain of Egg Plant in existence. The plants are stocky and low branching, stalks entirely free from spines, and produce continually handsome, deep purple fruits of largest size and most perfect symmetry. The plants usually bear eight to ten immense fruits of the finest quality before being killed by frosts. Large pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.00.

716. Black Beauty. A little earlier than our Improved New York Spineless but usually not quite so large. The skin is a rich, lustrous dark purple. Very desirable for the market as the fruit holds its rich coloring a long time. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.25.

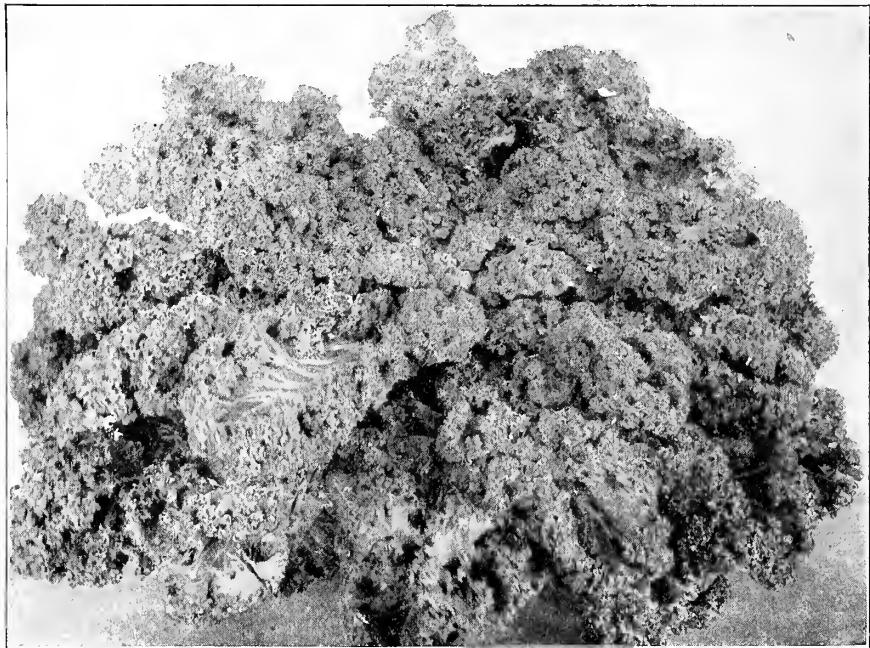
ENDIVE.

This plant furnishes an attractive and appetizing salad for the Fall and Winter months, or by repeated sowings a supply may be had nearly all the year round. Useful in flavoring soups, stews, etc. Makes delicious greens if cooked like spinach.

Cultivation same as for lettuce. The bleaching of Endive is brought about by drawing the leaves together into a head and tying them. This should be done a month before it is wanted for table use.

One ounce of seed required for 100 feet of row.

718. Broad Leaved Batavian. Leaves are broad, thick, green, more or less twisted and waved, with white mid-ribs. It forms large hearts, which when blanched, form one of the best winter salads. Crisp, tender and fine flavor. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.



Kale or Borecole.

KALE or BORECOLE.

Culture. More hardy than cabbage and makes excellent greens. Improved by a touch of frost. Sow in May and June, cultivate same as cabbage. See page 135 for Thousand Headed Kale.

740. Dwarf German. (Dwarf Curled Scotch Kale.) This is more hardy than cabbage and makes excellent greens for Winter and Spring use. The leaves are curly, bright green, very tender and delicate in flavor. Sow seed in May or June, transplant in July and cultivate same as cabbage. For early Spring use sow in September; protect over Winter with a covering of straw or litter. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

742. Tall Green Curled Scotch. bearing long, light green leaves, finely curled at the edges. Extremely hardy, being improved, rather than injured by a moderately heavy frost. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., \$1.50.

Grows up to three feet high,

745. Early White Vienna. For Forcing. Very early, small, handsome, white bulb. Best early variety for the table. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

What Our Trade Mark Means.

Our Sterling Bag Trade Mark is used to brand only those varieties of seeds which we can especially recommend to our customers. A variety so marked will be found the best of its kind in every instance. We use this method to designate our specialties. Northrup, King & Co.'s Sterling Brand Seeds have proved by careful test superior in purity, germination, productiveness and hardiness. They comply with the state pure seed laws of all states.





Leek.

LEEK.

Culture. Sow seed in early Spring in rows 1 foot apart and 1 inch deep. When 6 inches high, transplant 4 to 6 inches apart in rows 12 inches apart, setting the plants in the ground up to their center leaves and as they grow draw the soil up around them. This process tends to bleach the Leek and to make more palatable the edible portion. Seed required per acre, 4 lbs.; 1 oz. for 100 feet of drill.

750. Large American Flag. or "Broad London." A large growing variety. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50

MUSTARD.

Culture. When used for salads, sow thickly in shallow drills, 6 inches apart. Successive sowings may be made every week or two. When grown to produce seed for use in pickles, pepper sauce, etc., sow early in rows a foot apart and 3 inches apart in the row.

755. Southern Giant Curled. Used largely for salad, especially in the South. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 65c.

757. White Mustard. Makes delicious salad or greens. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

OKRA or GUMBO.

Culture. Sow the seed thickly in rich ground as soon as the ground has become warm, in drills 3 feet apart and one inch deep. Thin out to ten inches apart and cultivate freely.

760. Mammoth Long Podded. Exceedingly productive and bears splendid dark green pods from eight to nine inches long. It does not grow hard. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 70c.

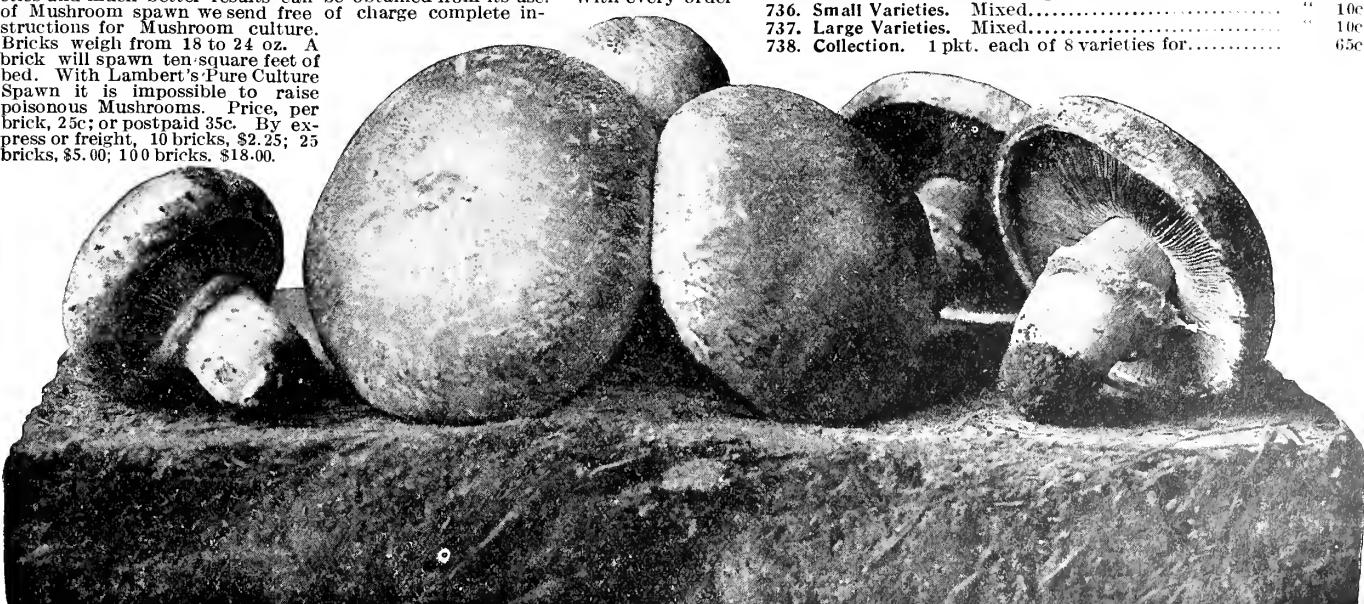
762. Dwarf Green. Grows low but stocky and is very productive. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

763. Long Green. The plant is dwarf and tender. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

764. White Velvet. The plants are about three and one-half foot high, early maturing and very productive. The pods are white, long, smooth and are tender until nearly full sized. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

MUSHROOMS.

Lambert's Pure Culture Spawn. Lambert's Pure Culture Spawn is far superior to the old style varieties and much better results can be obtained from its use. With every order of Mushroom spawn we send free of charge complete instructions for Mushroom culture. Bricks weigh from 18 to 24 oz. A brick will spawn ten square feet of bed. With Lambert's Pure Culture Spawn it is impossible to raise poisonous Mushrooms. Price, per brick, 25c; or postpaid 35c. By express or freight, 10 bricks, \$2.25; 25 bricks, \$5.00; 100 bricks, \$18.00.



Mushrooms grown from Lambert's Pure Culture Spawn. Brick of Spawn shown below.



GORDS.

Desirable where an immense amount of vine is wanted quickly. Fine for a screen. Fruit is unique, ornamental and often useful. It will keep for years when properly ripened. Plant after ground has become warm, in rich soil.

726. Apple.	Apple shaped.....	Pkt., 10c.
727. Calabash.	For pipes.....	" 10c.
728. Dipper.	Very useful.....	" 10c.
729. Hercules Club.	4 feet long.....	" 10c.
730. Nest Egg.	White like an egg.....	" 10c.
731. Orange Shaped.	Round, yellow.....	" 10c.
732. Pear Shaped.	Striped.....	" 10c.
733. Sugar Trough.	Very large.....	" 10c.
735. Mixed.	All varieties except Calabash.....	" 10c.
736. Small Varieties.	Mixed.....	" 10c.
737. Large Varieties.	Mixed.....	" 10c.
738. Collection.	1 pkt. each of 8 varieties for.....	65c.

LETTUCE

Culture. Sow in the house or in frames any time after March 10th; if put outdoors, as early in the Spring as ground can be worked and at intervals of two weeks till June 1st. Soil should be a rich sandy loam with plenty of humus. Rows to be 1 $\frac{1}{2}$ feet apart, plants two inches apart in row after thinning. Two ounces of seed will sow 150 feet of row, 4 to 5 lbs. required per acre. For later treatment see note at foot of page 35.

HEADING VARIETIES.

765. Northrup, King & Co.'s "Sterling."

Sold only in Sealed Packages.

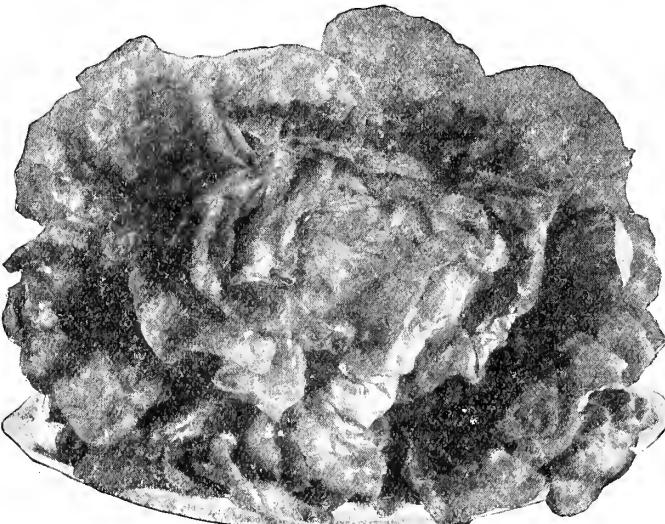
This grand Lettuce delights all who grow it. It is equally suited for the market gardener and the private planter. The market gardener will find that this Lettuce will command a premium over other sorts on account of its appearance and quality, while for private gardens no other Lettuce approaches it for table use. For salads it is unequalled.

Our Sterling Lettuce comes under the "crisp heading" class. The plants attain quite a large size, but are never coarse. The outer leaves are of a beautiful green, changing toward the center of the head to a rich golden yellow. In flavor it is extraordinarily sweet and crisp, and is of such beautiful appearance and superior quality as to cause universal remark. We never give the name "Sterling" to a variety that is not the very best of its class, and purchasers may rely on finding this Lettuce the best they have ever put on the table. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.



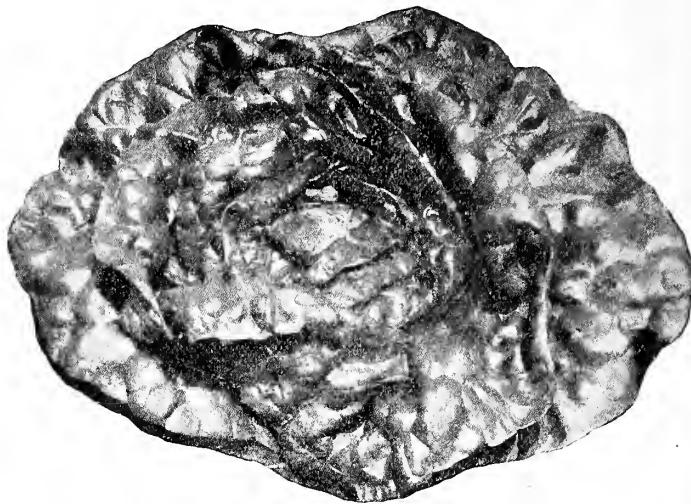
Black Seeded Tennis Ball Lettuce.

780. Black Seeded Tennis Ball. One of the best for forcing or early outdoor planting. Plants medium size, having thick, dark green leaves. When grown, forms solid heads which are crisp and tender. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.



May King Lettuce.

790. California Cream Butter. Forms round, crisp, solid heads, of buttery flavor, medium early. One of the best summer varieties of head Lettuce. Large pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.



Northrup, King & Co.'s Sterling Lettuce.

770. Northrup, King & Co.'s Market Gardeners.

(Sold only in sealed packages.) This is Lettuces. It is a very great favorite with market gardeners and holds the lead in point of popularity. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

785. Big Boston. A large heading, forcing sort, very hardy and vigorous, with broad, comparatively smooth, thin and very hard, bright green leaves. Quite tender. Indoors this forms a solid head, while outside it is less distinctively a heading sort. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

787. Black Seeded All Seasons. This variety is of very attractive appearance, having large, pale green leaves and a large, round head of splendid quality. Very crisp and tender, having that "buttery" quality so much liked. It resists heat exceptionally well, and as its name implies may be grown in the open from early until late in the season. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.



Crisp as Ice Lettuce.

795. Crisp as Ice. The heads are large and very solid. When cut open they have a rich, creamy heart, and are so tender and brittle as to warrant the name, "Crisp as Ice." Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

800. Deacon. While this sort does not grow so large as some kinds, it has few outside leaves, grows very solid, and has that delicious, buttery flavor so much sought for and esteemed. The center of the head blanches to a bright yellow shade and is very crisp and tender, remaining so for a long time, even in hot weather. One of the finest sure-heading summer sorts. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

810. Golden Queen. An early sort. One of the best for outdoor planting, as well as growing under glass. The color is a beautiful golden yellow. The heads are so solid, that there is no waste. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50, postpaid.

820. Iceberg. Has an unusually solid head. The white, main ribs of the leaves curve toward the center, which keep the interior thoroughly bleached. It is quick growing and always crisp and tender whether propagated in early Spring or in the hot days of Summer. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.



Prizehead Lettuce.

835. Prizehead. A large loose headed, thin leaved sort. The very large leaves are crimped, bright green, tinged on the edges with reddish brown and are crisp and sweet. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

838. Wayahead. A very early, firm heading sort, of fine appearance and quality. The heads are larger and tighter than other earlies. Outer leaves light green, under leaves are blanched to a buttery yellow tint. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

839. New York or Wonderful. Produces immense heads, solid as a cabbage. The heart blanches beautifully being crisp, tender and delicious. A robust variety, roots deeply and therefore can resist hot, dry weather. Outer color is a distinct apple-green. Extensively grown all over the country, it is especially popular in California where it is known as Los Angeles Lettuce. A desirable standard summer Lettuce. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

845. Salamander. A very bright green and attractive variety. It forms large, solid heads of thick, smooth, very tender leaves of the finest quality. The leaves are broad, thick, somewhat crumpled and closely overlapping so that the inner ones are very finely blanched. It withstands hot weather remarkably well and can be planted any time during the Summer. One of the best head Lettuces to grow out-doors. Also remains long in head before going to seed. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

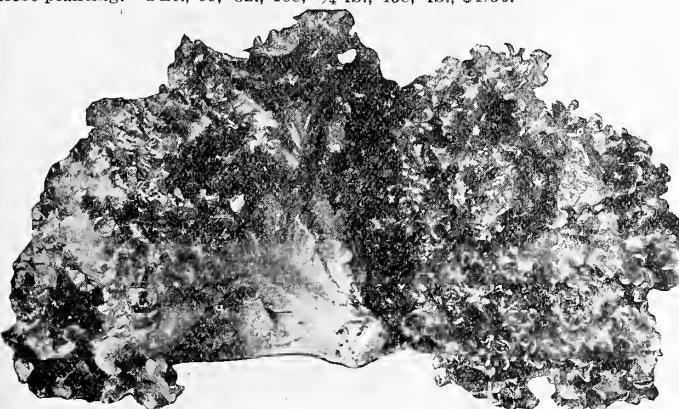
846. Mammoth Black Seeded Butter. An enormous cabbage-like head Lettuce, which is tender, crisp and sweet. The leaves are thick, yellowish-green and the inner ones are beautifully blanched. It is a good sort for all seasons. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

Fertilizers for Lettuce.

To grow the best tender Lettuce it is advisable to have a very rich, friable soil. The quality of this vegetable is largely dependant upon the rapidity with which it is grown, therefore liberal manuring and thorough preparation are profitable. We recommend for this purpose, Northrup, King & Co.'s Sterling Garden and Lawn Fertilizer and Sheep Manure, listed on page 154.

LOOSE LEAVED VARIETIES.

815. Grand Rapids. The most popular variety for greenhouse planting. It will make a quick growth even under adverse conditions. It is of handsome appearance, a strong grower and not subject to rot. When exposed for sale it keeps from wilting longer than other varieties. Its upright habit of growth permits close planting. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.



Grand Rapids Lettuce.

LETTUCE

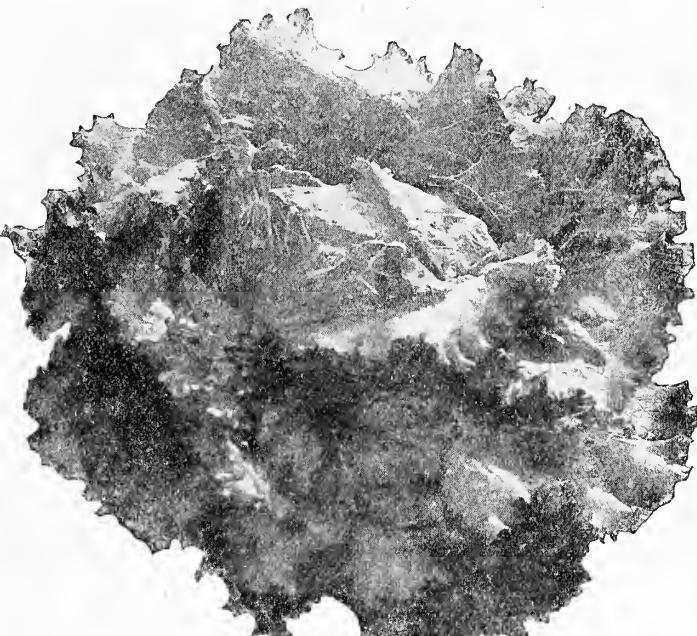
HEADING VARIETIES.

825. Improved Hanson Head. The Hanson is one of the crisp heading sorts, in all respects one of the very best out-door varieties for both the professional and amateur gardener. This variety is very hardy and will stand extremes of weather better, perhaps, than any other of the "crisp heading" sorts.

In color it is of an attractive green. The head which attains a large size, is hard, tender and crisp, with a blanched appearance in the center. The table quality is excellent, wholly free from bitterness and remains in splendid condition for use long after it has reached maturity. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

830. May King. An unequaled variety for early spring planting in the open ground, exceptionally early, attaining a size suitable for use before other sorts. Also good for forcing. It is extremely hardy and very quick growing. The plants grow six to seven inches in diameter, with the outer leaves folded closely, forming the plant into a solid head. The outer leaves are light green, slightly tinged with brown; the inner leaves are bright yellow and of a fine, rich, buttery flavor. Each head will weigh nearly a pound on the average. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

837. Tenderheart. A large, new early head Lettuce. Plants are uniform, and nearly all head with but few outside leaves. Very attractive and appetizing as well as being very tender, crisp, succulent and sweet. Tenderheart is very hardy and will withstand the early summer heat splendidly. Will remain in head without running to seed, for two weeks after it is fully headed up. The color of the outside leaves is pale green with a slight reddish brown tinge. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.



Improved Hanson Head Lettuce.

775. Black Seeded Simpson. One of the best, either for open ground culture. It forms large, thin, loose leaves of light green color, very tender, crisp and of fine quality. A fine sort for Summer, as it withstands the heat; also for the home garden. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

805. Early Curled Simpson. A popular sort, free from bitterness; forms large, loose heads. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

ROMAINE, COS OR CELERY LETTUCE.

817. Paris White Cos. A very distinct variety of Lettuce, having large, elongated, compact heads, that blanch mild and crisp. The plants are of erect growth, forming a tall, slightly oblong bunch of large, crisp leaves. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

Culture for Head Lettuce.

Assuming that the Lettuce plants have been started as suggested at the top of page 34, they should be transplanted as soon as they begin to crowd. Place them six inches apart in the row in extra rich soil and if the sun has become very hot, it will be best to furnish partial shade. Keep the soil well cultivated around the plants to destroy weeds and preserve a soil mulch. Water frequently during dry weather.

When the heads start to develop work up the soil around them so as to induce close, compact growth. As soon as the outside leaves are large enough they should be brought together and tied over the top with raffia. This should be done more loosely than with Cauliflower and the plants must be closely watched so that they can be used at the right stage of development. Tying the heads in this manner helps to blanch them and make them deliciously tender and crisp.

MUSKMELON

Culture. Muskmelons delight in moderately rich, light, warm, mellow loam. The seed should be planted in the Spring upon the arrival of settled warm weather. Plant seeds 1 inch deep in hills, 4 to 6 feet apart each way, and as soon as the plants begin to run, remove all but 4 of the most likely ones.

Cultivate and keep free from weeds until the vines prevent. Two to three pounds of seed required per acre.

912. New Melon, Honey Dew. Honey Dew is a new type of Melon. It is not a Cantaloupe. The color is dull white when ripe, size about six inches in diameter from top to bottom and seven to eight inches long, all Melons being nearly the same size. Weight averages eight to ten pounds.

The Honey Dew Melon has no netting, but the rind though thin, is very tough and so close that the excellent flesh is practically sealed up and it keeps in fine condition for two to three months after the crop is gathered. Color of flesh, a rich green from close to the rind to the seed cavity and the flavor delicious to all who enjoy a good Melon. It has the sweetness of honey and the freshness of morning dew.

We recommend sowing the seed in the northern states in pots or cold frames after April 15th, so that established plants may be ready for setting in the open ground June 10th to 20th. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

915. Northrup's Yellow Meated Japan.

This is by far the finest, most luscious and pleasing Muskmelon ever grown. The vines are hardy, permitting earlier planting, very prolific, and produce very large fruits, nearly as early as the smaller varieties. The Melons are nearly round, not deeply ribbed and covered with patches of netting. The skin is yellowish white when ripe. The crowning feature of this Melon is found in the thick, melting, delicious, salmon-colored flesh. It is extremely rich, sweet and highly flavored. We know of no other sort which will give as great satisfaction as our Yellow Meated Japan Muskmelon. See illustration at right. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

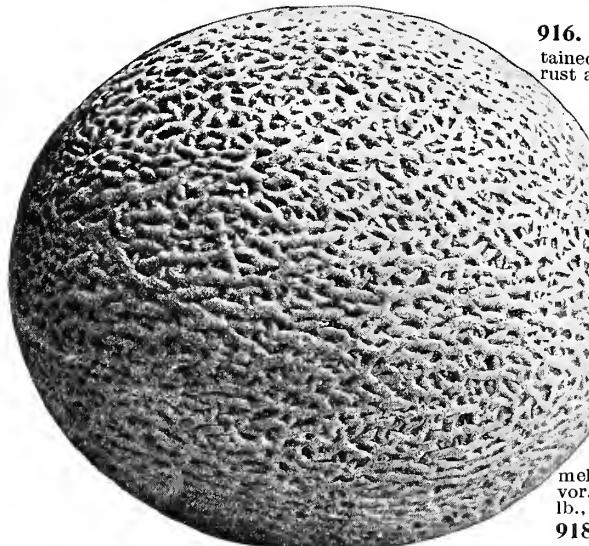
Rocky Ford Cantaloupes.

This Melon, is just the right size to serve in halves and its delicious flavor makes it ideal for that purpose. The profits to be derived from growing these Melons are very large when proper soil, seed and cultivation are used. Perhaps the most important consideration is the seed to be planted. We are offering below the three best strains of Rocky Ford Cantaloupe, each of which has been bred with a particular point in view. Earliness, rust resistance, netting and solid meat are highly important characteristics which have been secured by the persistent efforts of Melon breeders in the varieties we offer.

Best Melon I Ever Grew.

The Yellow Meated Japan Muskmelon, of which I got the seed of you, is the best melon of its class I ever grew either for home or market, and I have grown melons for forty years.

W. T. Berry, Virginia, Ill.



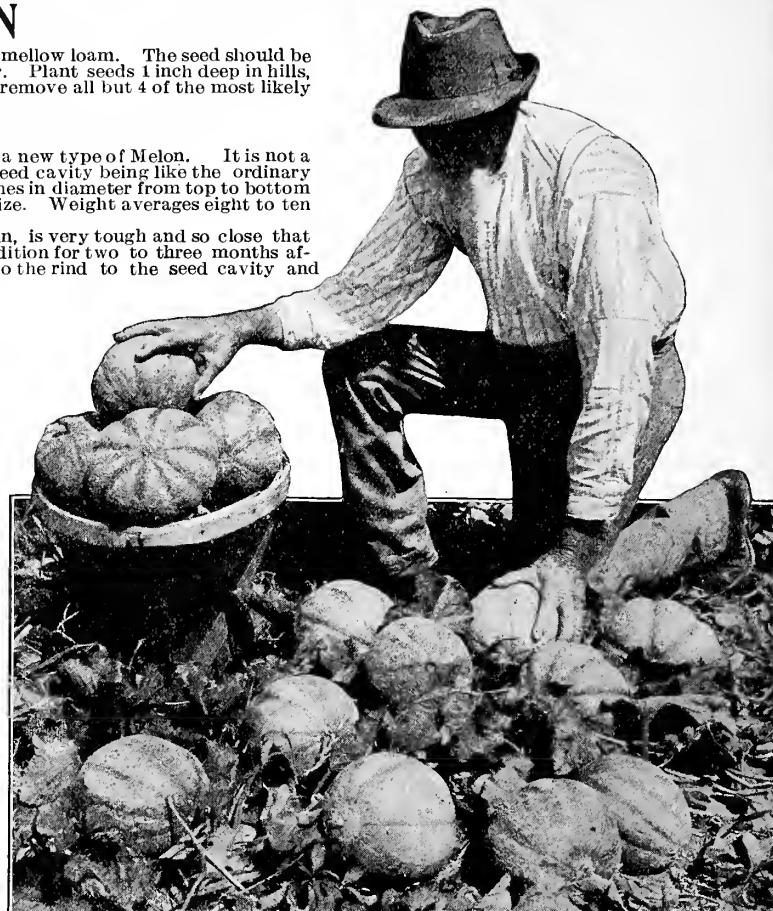
Netted Rock.

The earliest of all the Rocky Ford Cantaloupes. It is prolific and usually the first setting is very heavy, most of the fruit, ripening at the same time. It is of fine shape and size and inclined to run to solid netting. The flesh is light green and of the best quality. The seed cavity is larger than in the other strains, and does not make as good a shipper, but for home use is very desirable. Not recommended for sections having excessive rainfall as the vines are inclined to rust, but where early Melons are an object or for dry localities, or under irrigation it is the most valuable Cantaloupe. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1b., 85c.

919. Improved Pollock or Eden Gem. This Melon is the earliest and very prolific. The color of the flesh varies from green to golden yellow, solid, fine grained and of the finest flavor. This variety is rapidly growing in favor with shippers and is equally desirable for the home garden. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

921. Salmon Fleshed Rocky Ford. This variety has rapidly grown in favor. The flesh is a rich salmon color and fine grained. The seed cavity is unusually small, which accounts for its superior shipping qualities. Very desirable for the home garden. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

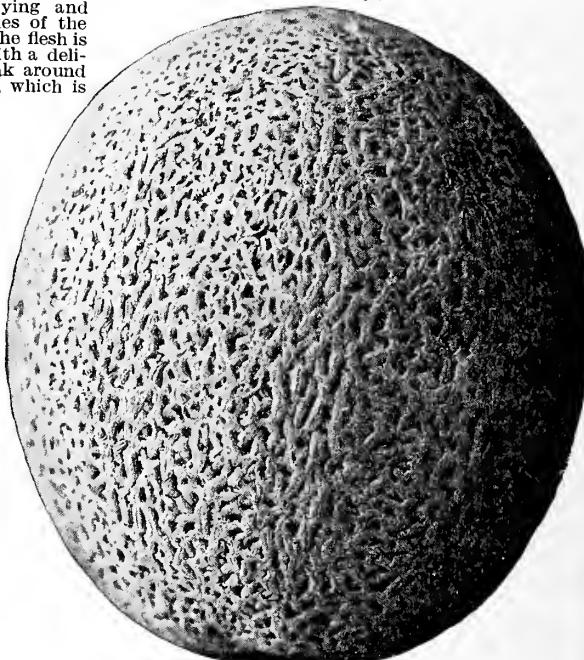
Book on Melon Culture. A very complete work on both the Muskmelon and Water-melon. Price, 50c, (postpaid 55c).



916. Rust Resistant Pollock. This type is the highest development, both as to netting and rust-resistant qualities, yet attained in the Rocky Ford Cantaloupe. When vines of some varieties are entirely killed by rust and blight within two weeks after the shipping season, the vines are green and continue to blossom and set fruit until frost. The Melons run very uniform in size and the exceptionally heavy netting is laced and interlaced over the entire surface, making it an ideal shipper. The flesh is green, shading to salmon about the seed cavity which is unusually small. The meat is solid and fine grained, flavor unexcelled. While a few days later than the Early Watters, it is more prolific. Desirable where there is an excessive rainfall. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

917. Netted Rock. This strain represents the highest possible attainment in Cantaloupe development. It is undoubtedly the heaviest meated Melon of the Rocky Ford type. It produces Melons of uniform standard size, 90 per cent of which are completely covered with a beautiful gray, lace-like netting which with the small seed cavity, are the most essential points in carrying and keeping qualities of the Cantaloupe. The flesh is green, tinged with a delicate salmon pink around the seed cavity, which is the smallest of any strain of Rocky Ford. The flesh is firm but not tough or stringy, sweet, luscious, melting and superb flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

918. Early Watters, Improved.



Early Watters, Improved.

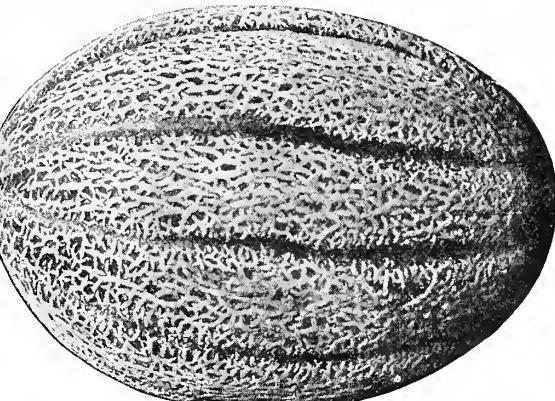
MUSKMELON

920. Burrell's Gem. This new Melon is without question unsurpassed in quality, size and shape as a shipping variety. It has a thin tough rind, the ribs of which are closely interlaced with gray netting. The average length is six inches, by four and one-half inches in diameter. They weigh about two and one quarter pounds each. The reddish orange flesh is very thick, fine grained and spicy, of a flavor unexcelled by any other Melon. So great has been the demand for this variety by commission houses who have handled them that growers are unable to keep them supplied. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

925. Defender. One of the best yellow fleshed sorts, and in some respects is superior to all others. The Melons are medium sized, oval in shape, slightly ribbed, and covered with gray netting. The flesh is firm, fine grained, rich, deep yellow and of high flavor. The rind is very thin, but is very hard and firm, making it an exceptionally fine shipping variety. The vine is vigorous and very productive. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

930. Early Netted Gem. Slightly oval in form; finely netted, being a light green in color, melting and luscious in flavor, ripens close to the skin. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

935. Emerald Gem. Very early. A richly flavored Melon, salmon colored flesh which is almost crystal in appearance, the flavor being rich, very sweet and luscious. The skin is quite smooth, and of a beautiful deep green color. This variety is very prolific and is one of the most valuable sorts in cultivation. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.



Burrell's Gem Muskmelon.

953. Hoodoo. Flesh is fine grained and sweet, deep orange in color and extremely thick with small seed cavity. Fruits are round and about the size of Rocky Ford, making them convenient both for the table and for packing in shipment. As a shipper it can't be surpassed. A wonderfully prolific sort. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

955. Improved Yellow Cantaloupe. Large oval-shaped fruit with deep ribs. The flesh is salmon yellow and very sweet. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

960. Jenny Lind. This is the earliest of the green fleshed sorts and one of the sweetest. It is round or flattened. In size it is small, being from three to five inches in diameter—a very convenient size for serving in halves. The vines are very prolific and the culture profitable. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

965. Long Island Beauty. Fruits of large size, well flattened, heavily ribbed and netted. Of very handsome appearance and fine quality. Very highly recommended; ripens early and is superior in flavor; green fleshed. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

970. Osage or Miller's Cream. Fruit medium sized, oval, slightly ribbed, dark green in color, banded with lighter streaks, covered more or less with shallow netting. The flesh is deep salmon color and very thick, there being but a slight cavity in the center of even the largest fruit; the quality is exceptionally fine. A favorite variety for the later markets. We have taken a great deal of pains to develop the thick, deep, rich colored and fine flavored flesh of this sort. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

975. Paul Rose or Petoskey. Combines all the good qualities of the Netted Gem and Osage, the varieties from which it originated, possessing the sweetness of the latter with the finely netted appearance of the Gem. Fruit oval, about 5 inches in diameter, shape and general appearance similar to the Netted Gem, of a light green or faint golden hue when fully ripe. Firm flesh, a rich orange red like the Osage, but even sweeter and higher flavored; ripens close down to the rind, with small seed cavity; the most uniformly good of any Muskmelon grown. Best shipper, just the size for hotel and table use. Really has no equal as a market Melon for professional growers and one of the very best sorts for the home garden. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

985. Tip Top. The Melons are round, well ribbed, with light green skin which becomes netted when ripening. They average seven inches in diameter. The flesh is quite thick, bright salmon in color, and of luscious, melting flavor, but sufficiently firm for shipping purposes. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

Booklet on Vine Crops. Contains concise information on the raising and care of Muskmelons, Watermelons, Cucumbers, Tomatoes, Squash, etc. It advises as to seed selection, storing and shipping. Will be sent free with orders when requested or mailed to any address for 5c in stamps.

Osage or Miller's Cream Muskmelon.

940. Extra Early Citron or Early Nutmeg.

A standard and well known variety. Fruits are round, 6 to 8 inches in diameter, ribbed and netted. Flesh is thick and pale green in color, very sweet. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

945. Extra Early Hackensack. Fruit attains a good size, weighing four to six pounds each. The Melons are round, heavily ribbed; skin is green and thickly netted; flesh is light green, of delicious flavor, rich and sugary. It is also a luxuriant, healthy grower, and exceedingly productive. The earliest of all large netted Melons. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

947. Grand. A week to ten days earlier than Osage. Flesh is salmon colored, firm, fine grained, very thick, melting and delicious. An extra good shipping sort. Melons about six inches in diameter. Very productive. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

950. Hackensack or Turk's Cap. Fruit very large, round, heavily ribbed and netted. Flesh green, thick, coarse, very sweet and fine flavor. Hardy and very productive. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.35.

990. Melon Peach. Also known as Vegetable Orange, Vine Peach, Vegetable Peach and Mango. The fruit is about the size of a large peach, oval-shaped and of a bright orange color, somewhat russeted. When they first ripen the fruit falls from the vine, then they are quite hard with little taste, but soon become mellow and fit for use. Melon Peaches are not eaten raw, but are fine for preserves, pies, pickling, etc. For this purpose they are delicious if first peeled and seeds removed, then cut in thick slices. For preserves treat like any fruit, using half sugar and half fruit, a little lemon essence or a few pieces of sliced lemon. For pies, slice and season the same as green apples, using top and lower crusts and bake slowly. This new pie when first eaten will not be soon forgotten, making a most appetizing dessert. Melon Peaches are very easily grown, same as Melons and are very productive. Pkt., 10c; oz., 25c.

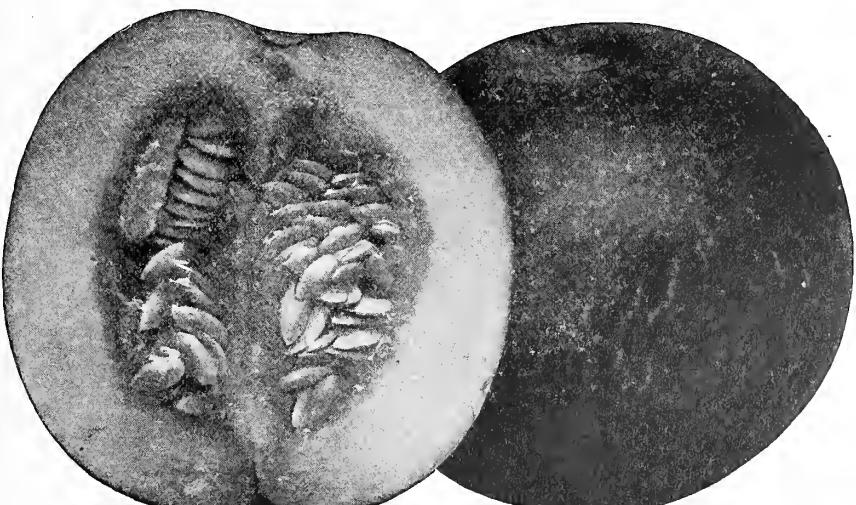
995. Garden Lemon. Resembles very much in habit of growth the Melon Peach. The fruit is round, somewhat smaller than the Melon Peach; has thinner flesh, and is decidedly more acid in flavor. Pkt., 10c; oz., 25c.

997. Cassaba Melon. Cassaba Melons are a little different from both Muskmelons and Watermelons. The skin is smooth and hard, flesh extremely tender, rich, sweet and juicy. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Went Wild Over Them

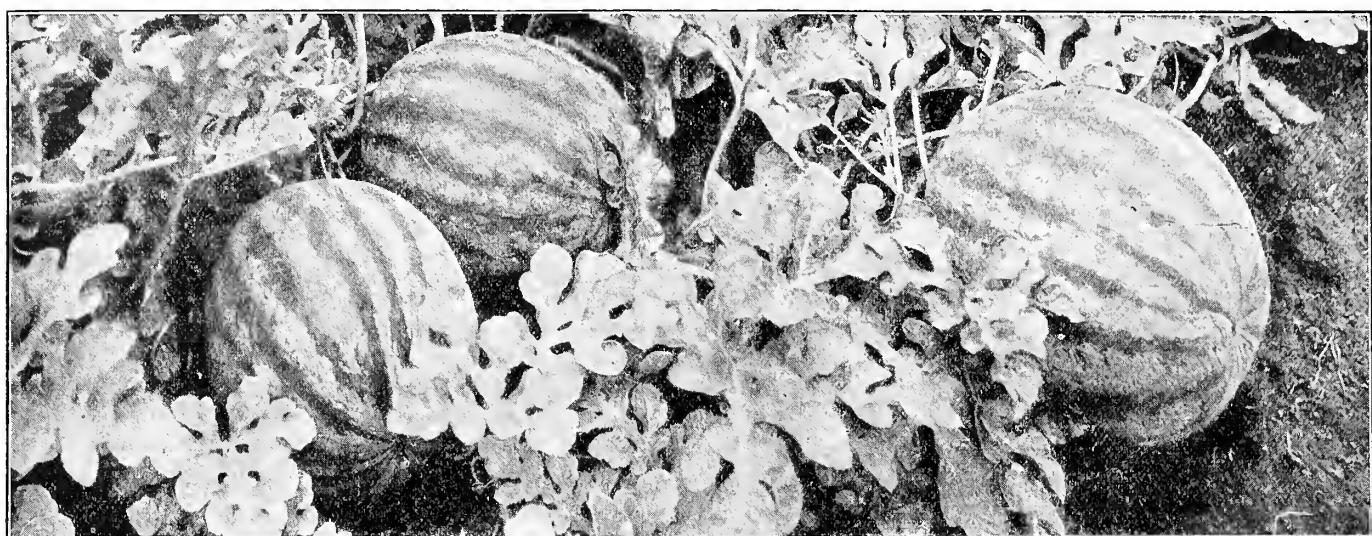
The Melon Peaches were grand. Everyone who tasted them was wild over them.

C. M. FIRTH, Claremont, Minn.



Melon Peach.

WATERMELON



Northrup, King & Co.'s Klondike Watermelon. The Earliest Watermelon Grown.

Culture. The soil for Watermelons must be light, rich and sandy, for if grown on a heavy soil the quality will be poor, and they will not be so early. When there is no more danger of frost, drop 8 to 10 seeds in hills 8 to 10 feet apart each way, covering about $\frac{3}{4}$ inch deep. As soon as plants commence to run, thin out to 3 best plants in a hill and cultivate until the vines cover the whole ground. If slow to fruit, pinch off the ends of the growing shoots. Ashes or air-slacked lime sifted on the young plants while dew is on is good to keep the insects out. One ounce will plants about 30 hills, and it takes 4 to 5 pounds to one acre.

850. Northrup, King & Co.'s Klondike. (Sold only in sealed

packages.) The earliest. The great objection to the extremely early Watermelons has been their inferior quality. This has been entirely overcome in the Klondike, which is offered with the assurance of being, not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown. The flesh is of a deep scarlet. Rind thin, and on this account is not a particularly good shipping sort, but is emphatically the variety for home use and sale. It will ripen in altitudes where it has not been thought possible to mature a good Watermelon. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

855. Northrup, King & Co.'s Kentucky Wonder.

(Sold only in sealed packages.) One just cause for criticism of many of the new Melons is that, for the most part, they have been, at the best, slightly improved strains of some old and well known sort. This cannot be said of Kentucky Wonder. It is distinct, and the Melon itself proves it. In shape it is oblong, attaining a good size; skin dark green and beautifully marked. Flesh a beautiful rich scarlet color, crisp, rich, sugary, always firm and solid, never mealy or tough. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

860. Dark Icing. Rind thin, but very strong; one of the best for early shipping. Fruit large, very dark skinned and of attractive appearance. Flesh rich, bright red, and of fine quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

865. Fordhook Early. An extra early Watermelon of large size. The rind is tough, making it desirable for shipping purposes. Flesh is bright red and very sweet. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

870. Harris' Earliest Watermelon. Sweetest, largest and best shipping early Melon. Melon is oval to oblong; beautifully striped with green and gray; bright red flesh, which is sweet, tender and delicious. It is the Melon for everybody to grow who wants to be first in the market with fine large Melons weighing 20 to 30 pounds. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

875. Ice Cream or Peerless. Rind thin, light mottled green. Flesh bright scarlet. Solid to the center. Sweet as honey. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

880. Kleckley's Sweets. The finest of all medium early Watermelons for home use. The rind is too thin and tender to stand long distance shipment. The fruits are uniform in size, oblong in form, the skin is a rich dark green, the flesh, bright scarlet, the seeds lie close to the rind, leaving a very large, solid, red core. The flesh is rich, sugary and melting, being entirely free from stringiness. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

885. Kolb's Gem. Very large, slightly oval, striped with light green and dark green. Rind very hard and firm. Flesh bright red, solid, coarse grained, but tender and sweet. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

890. Mammoth Ironclad. Large fruits nearly two feet long. Skin dark green with lighter stripes. Rind thin but exceptionally tough. Flesh bright red, firm, solid and crisp but rich and sugary. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

895. Phinney's Early. Very early, quality good; hardy. Bears abundantly, medium sized, oblong melons with thin, smooth rind; flesh pink and tender. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

900. Sweetheart. Remains in condition for use longer than any other sort. Fruit early, large, oval and very solid. Flesh bright red, tender and sweet. Rind thin, but strong, making it a good shipper. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

905. The Dixie. This Watermelon is the best shipping Melon grown, being even larger, earlier and far more productive than the Kolb's Gem, which has heretofore been considered the best Melon for shipping. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

908. Tom Watson. A large, oblong Melon, the skin of which is dark green, with thick netting on the entire surface, quite distinct from other varieties. It averages 18 to 24 inches long and 10 to 12 inches in diameter and weighs 50 to 60 pounds. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. The heart is large with no core. The seeds are brown, tipped with white. The appearance and quality of this Melon make it desirable for both home and market use. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

867. Golden Honey. A beautiful, golden-fleshed Melon, one of the finest ever tasted. The flesh is a beautiful, glistening amber yellow, very tender, and has a most delicious flavor. It is medium early, of uniform large size, oblong shape and of handsome appearance. The rind is light green, with mottled stripes. Some are more or less prejudiced against a yellow-fleshed Melon, but this dislike will disappear once the Golden Honey is tasted. This Melon has no hard core or stringy sections. The rind is thick and the seeds are large and white, some having a small black tip. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

910. Citron for Preserves. Fruit round and smooth. Is not eaten raw, but is used for making a very clear, transparent preserve of peculiarly fine flavor. Flesh white and solid. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Special Note.

All vegetable and flower seeds sent prepaid except where noted. See page one for general suggestions to customers, parcel post rates, shipping seasons, our responsibility, etc.



Kleckley's Sweets Watermelon.

1000. Northrup, King & Co.'s Minnesota Red Globe.



Sold only in Sealed Packages. This beautiful strain of Red Globe Onion surpasses all others in earliness, productiveness, perfection of shape, uniformity of size, richness of color, and long keeping qualities.

For years we have been patiently working to improve our Red, Yellow and White Globe Onions, not only by reducing the size of the neck, but also rounding off the projecting bottom, while at the same time giving due attention to the shoulder of the bulb. This has resulted in a true globe-shaped Onion of great solidity and long keeping qualities; the very small neck not only prevents water-logging, rot and shrinkage, but also insures early maturity and perfect ripening down.

The color of Minnesota Red Globe is a deep blood-red, extra dark, while the surface is smooth and glossy. The flesh is white, tinged with light purple, fine grained and unsurpassed in flavor.

Many of the largest growers in the United States have annually used our Minnesota Red Globe Onion seed for more than a decade, convinced that Northrup, King & Co.'s strain is unequalled for the North.

For a long time Onions have been the biggest money-making crop for the farmer. It is true that the Onion market has its ups and downs, like all produce, but at the average price of about 65c per bushel in the Autumn, and the ordinary yield of 400 to 500 bushels per acre, onions yield highly satisfactory returns to the grower. One often reads glowing accounts of enormous Onion profits, yields of 600 to 1,000 bushels are not unknown. With intensive cultivation, experience and skill these yields are within the reach of all in a normal year.

Everywhere globe Onions bring the best prices and since our Minnesota Red, Yellow and White strains are the most highly developed of all globes we confidently recommend them to growers who want Onions that will top the market.

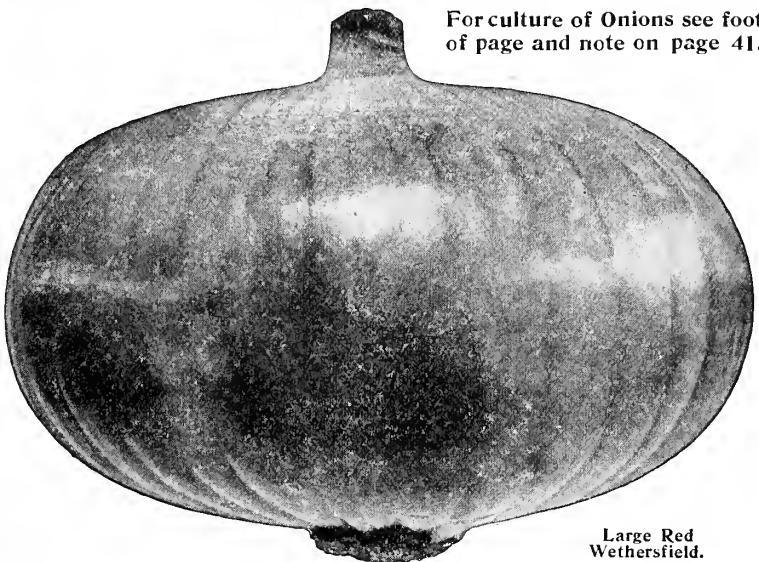
A sound, well-ripened Onion crop can be put away in the Autumn and held for 6 to 8 months under suitable conditions with a shrinkage of not much more than a pound per bushel per month. Experienced growers are careful, however, to plant a select strain of seed which has been bred to produce long-keeping, perfectly ripened bulbs. Consequently the demand for our Minnesota strains is continually increasing, many growers now place their orders a year in advance.

Price for Northrup, King & Co.'s Minnesota Red Globe Onion, pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50; 10 lbs., \$22.50.

This variety is early, productive, rich in color and of uniform size.

ONION RED VARIETIES

For culture of Onions see foot of page and note on page 41.



Large Red Wethersfield.

1085. Southport Red Globe.

In all markets, globe Onions are in greatest demand, being of such shape there is practically no waste. The Onion which is perhaps the best known throughout the United States is the Southport strain. The Red Southport is perfectly globe-shaped and very handsome in color. The Onions measure from two and a half to three and a half inches in diameter, and are very uniform both in size and shape. Our seed has been selected to thin neck plants which ripen down to a hard, solid ball, producing the largest proportion of marketable Onions. They are also good keepers. The globe varieties, as a rule, yield the largest crops, from 800 to 1,000 bushels an acre being reported frequently.

The Red Globe meets with the greatest demand in the Northwest. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.25; 10 lbs., \$20.00.

1025. Large Red Globe.

A handsome, dark red, globe-shaped Onion. It averages three inches in diameter and nine to ten ounces in weight. The bulbs have thin necks, which ripen down forming a hard, solid, globular bulb. This is a fine strain which will please all who grow it. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00; 10 lbs., \$17.50.

1015. Large Red Wethersfield.

Very popular, a sure and heavy yielder; the best keeper, grows to an immense size, solid, oval-shaped flattened on top; skin purplish red, smooth and glossy; flesh white, slightly tinged with pink, strong flavored. The best variety for poor or dry soil. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75; 10 lbs., \$16.00.

1020. Extra Early Red Flat.

A medium sized flat variety, good yielder. Ready for use about two weeks earlier than Large Red Wethersfield. Fine grained and mild in flavor. Very desirable for early marketing. Best where seasons are very short. Good keeper. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

1105. Red Bermuda.

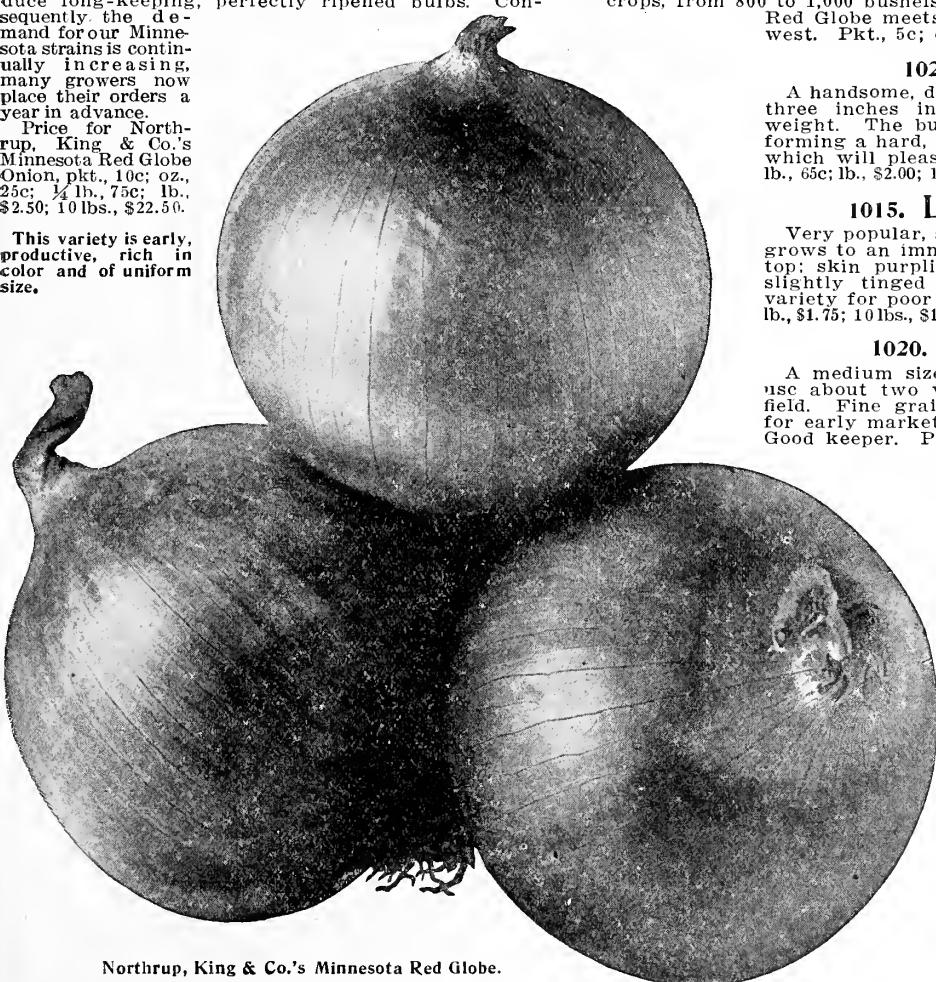
Bulbs of this variety are similar in form and early ripening to the Bermuda White, but grow larger in size, ranging from three to four inches in diameter; very flat and of a light pink color. The flesh is white, slightly suffused with pink. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 85c; lb., \$3.00.

Culture.

Soil for Onions should be rich in humus and plant food. Fresh stable manure and barnyard litters are entirely out of place on the Onion field. They are usually loaded with weed seeds and will interfere very much with tillage. Compost heaps will destroy the weed seeds and put the manures in such condition that they will readily mix with the soil. Manure from sheep sheds or pig pens applied with a spreader before the ground is plowed in the Fall makes excellent fertilizer for Onions because it is usually comparatively free from litter and foul seeds. See page 41.

We especially recommend our Sterling Fertilizer for this crop. See page 154 for description and prices. This should be applied at intervals during the season.

All vegetable and flower seeds sent prepaid except where otherwise noted.



Northrup, King & Co.'s Minnesota Red Globe.

ONION

YELLOW VARIETIES.

1010. Northrup, King & Co.'s Minnesota

Yellow Globe. Sold only in sealed packages. We have for years been working on the popular Yellow Globe Onion to bring it to the same degree of perfection attained by our Minnesota Red Globe and we now feel that we have succeeded in producing a type of Yellow Globe unequaled by any other strain in existence. It is a large globe-shaped Onion of the same general characteristics as our Minnesota Red Globe and should prove very satisfactory to the grower. If yellow Onions are preferred, try this strain. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50; 10 lbs., \$22.50.

1080. Northrup, King & Co.'s Prize Taker.

Sold only in Sealed Packages

This Onion has become a great favorite on account of its large size and great solidity. It is perfectly globe-shaped, with straw colored skin; the necks are very small and the Onions always ripen up hard. An excellent keeper, exceedingly fine flavor, grows to an enormous size, Onions weighing five pounds having been grown from seed the first year. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.25.

1095. Southport Yellow Globe. Very similar to the Southport Red Globe, except that it averages a trifle smaller and matures a little earlier. The skin is a rich brownish yellow; the flesh white, crisp and fine grained. Great care has been given to the selection of our seed, so as to give uniformity of size, shape, small necks and heavy yield. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.25.

1120. Long Keeping Australian Brown Onion.

This remarkable Onion is of medium size, wonderfully hard and solid and most attractive for market, both in form and appearance. They are extremely early in ripening and make no stiffnecks or scallions. Every seed seems to produce a good-sized Onion, and the bulb begins to form very quickly when the plant is not over 3 inches high. Planted with the Red Wethersfield it will average nearly four weeks earlier, and ripen off more uniformly. It has the reputation of keeping indefinitely, and we think from its firmness and hardness that it will keep in good condition longer than any other Onion known. The color of the skin is a clear amber-brown. These Onions have been known to keep nearly a whole year in good condition, and on this and other accounts it will commend itself to onion set growers, who often lose heavily in carrying their crop because the sets do not "keep." Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

1035. Yellow Danvers Flat, or Round. Very productive, medium size, round, flat, early. Very reliable, small neck; thin, pale yellow skin. Flesh white, fine grained and mild. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

1040. Yellow Globe Danvers. Large and globular, with very thin necks; rich orange-yellow color. An enormous yielder and a fine keeper. Flesh white and mild. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.25; 10 lbs., \$20.00.

Excellent Satisfaction.

Your Yellow Globe Danvers Onion seed gave excellent satisfaction. R. ROESCHEISEN, Orient, Wash.

1045. Yellow Strasburg or Dutch.

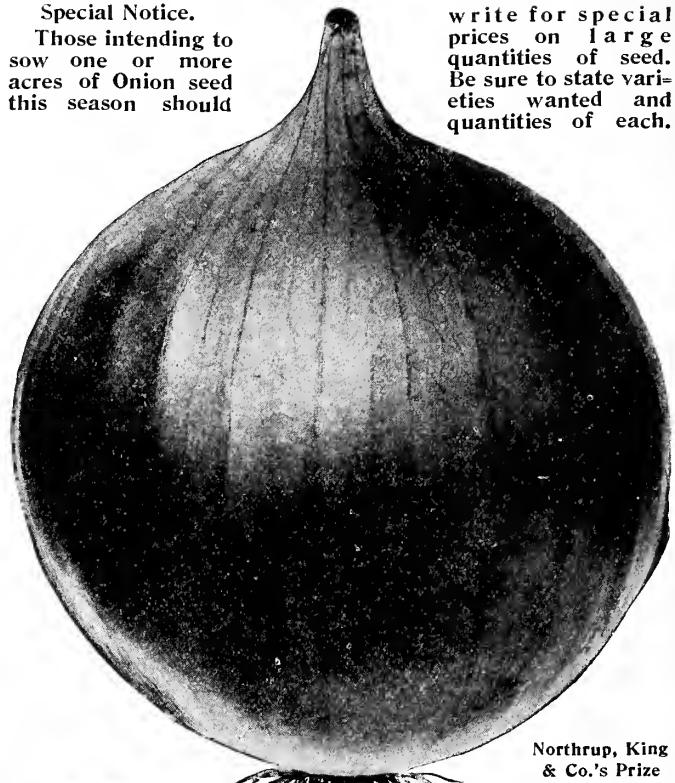
Later, darker in color and more flat than Yellow Danvers Flat. Flesh pure white and of mild flavor. The best variety to grow for sets, and is a splendid keeper. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

Buy Early.

Seed of high-grade Yellow and Red Globe Onion is again in short supply this season. We urge customers to place orders early.

Special Notice.
Those intending to sow one or more acres of Onion seed this season should

write for special prices on large quantities of seed. Be sure to state varieties wanted and quantities of each.



Northrup, King & Co.'s Prize Taker Onion.

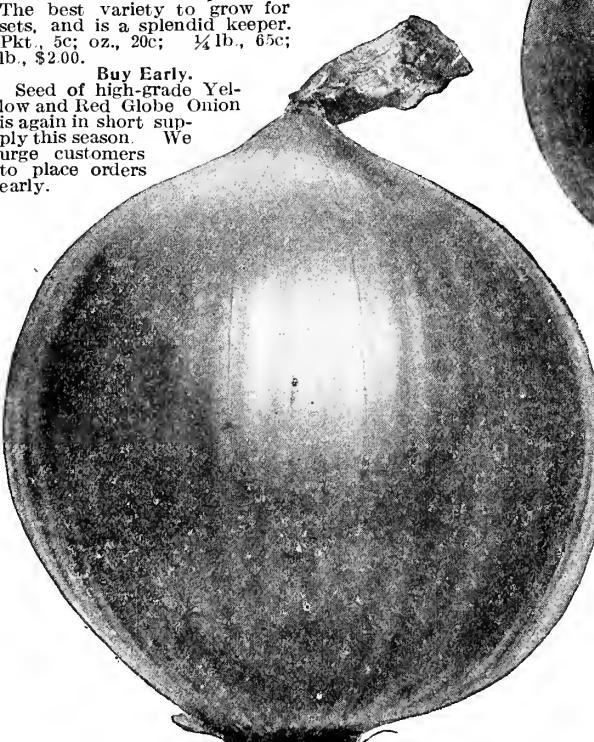
1093. Ohio Yellow Globe. A very desirable strain of yellow globe-shaped Onion. The main features which distinguish this strain from others are its distinct and attractive shape; handsome, bright, even color; ripens early and all at once; necks very small and cure down very close. The bulbs are firm, solid and keep exceptionally well during the Winter. The yield, size and quality are all that could be desired in a yellow globe Onion. Although this strain was first introduced in Ohio, the seed we offer is thoroughly acclimated and is suitable for northern conditions. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00; 10 lbs., \$18.00.

Fertilizers.

The two principal fertilizers for Onions are Nitrate of Soda and Muriate of Potash; the latter being used on muck lands. Nitrate of Soda furnishes the young plants with the most essential plant food, nitrogen, in soluble form. For fertilizers of all kinds see pages 154 and 155.

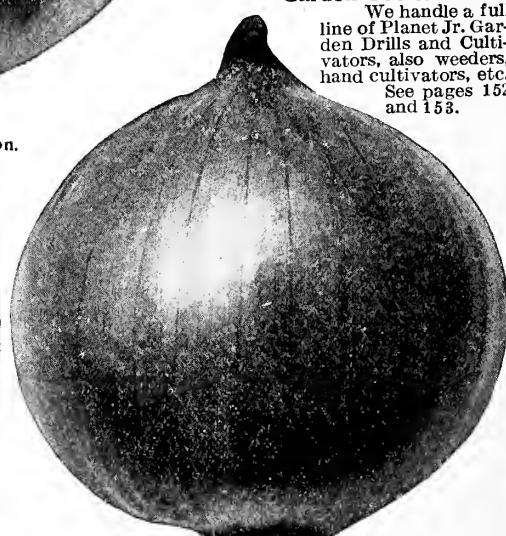
Garden Tools.

We handle a full line of Planet Jr. Garden Drills and Cultivators, also weeder, hand cultivators, etc. See pages 152 and 153.



Southport Yellow Globe Onion

Booklet on Onion Culture. A 24 page treatise on Onion raising from seed to marketing. In concise, intelligent language it tells of soil selection and preparation, fertilizers and how to apply them, cultivation, varieties of seed to sow, the new Onion culture and methods of seeding, weeding, harvesting, storing, marketing and shipping. This little book has assisted many Onion growers to earn increased profits. We will send it free with orders when requested, or will send it by mail, postpaid to any address for 5c in stamps. **The New Onion Culture.** By T. Greiner. A complete guide on the growing of Onions with the greatest profit. Price, 50c, (postpaid 55c).



Ohio Yellow Globe Onion.

ONION WHITE VARIETIES.

Culture. Onions thrive well in any good soil, although very sandy soils are apt to dry out to too great an extent. Probably the very best soil for this purpose is old land that has been kept up to a high state of fertility and free from weeds, fall plowed and thoroughly pulverized in the Spring.

Sow the seed early in the Spring, about $\frac{1}{4}$ inch deep in rows 12 to 15 inches apart. It is tedious work thinning Onion plants so to avoid unnecessary labor it pays to plant seed of highest germinating qualities; then the seed can be sown just a trifle thicker than the Onions are to stand and little thinning will be required.

In the case of large varieties, like Prizetaker and Mammoth Silver King, the young seedlings should be transplanted so as to permit the plants to reach full size and development.

As soon as the plants begin to break through the soil, pass over the rows with a wheel cultivator which works both sides of the row at once and throws a little soil away from the base of the plants and as soon as cultivated they should be weeded. Cultivate and hand weed every two weeks throughout the Summer as it is much easier to handle the crop in the Fall when entirely free from weeds.

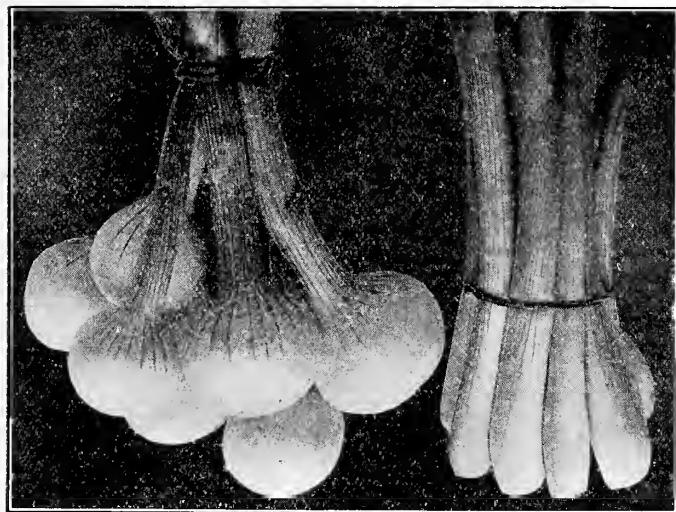
One oz. of seed for 100 feet of row; 5 to 6 lbs. seed per acre.

1005. Northrup, King & Co.'s Minnesota White Globe.

Sold only in Sealed Packages. White varieties are the mildest in flavor of any of the Onions and are, on this account, often preferred for family use. Our Minnesota White Globe is the most perfect in shape of any White Globe strain. Most White Globe stocks are marred by dark, rusty streaks. Our Minnesota White Globe is almost entirely free from this blemish and is the purest in color of any White Globe type. This is in every way the finest White Globe Onion in existence. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

1090. Southport White Globe. White Globe Onions command the highest market prices when they are true globe-shaped and free from stain. Our Southport White Globe Onion meets these requirements, having a thin skin of purest whiteness. The flesh is crisp, fine grained, very white and mild. As soon as ripe, the bulbs should be stored in a cool, dark shed or dry cellar. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., 95c; lb., \$3.25.

1100. Crystal White Wax Bermuda. This new variety is a large, pure-white, flat Onion. During the last few years it has become very popular with the large growers of Onions in the South, especially in southwest Texas. It does very well under northern conditions and produces one of the mildest and sweetest of them all. It is very fine for slicing, the color being so clear and pure. The best seed is produced in Teneriffe, Canary Islands. Our stock is genuine. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.25; lb., \$4.00.



White Bunching Onions.

White Welsh Onions.

1032. White Bunching. An extra early, round, white variety of very fine quality, maturing large, snowy-white onions before the other sorts are ready. For early bunching or using green, it is unsurpassed. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

1033. White Welsh. A very hardy perennial variety of Onion used only for bunching or early green onions. Much superior to the Egyptian Onion, which grows a tough woody stem. This Onion is entirely free from this objection. Sow seed thinly in rows 12 to 16 inches apart. Perfectly hardy and require no mulching. Seed may be sown in late Summer or early fall months for early spring onions. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

1030. White Barletta. This variety is more distinct on account of its earliness. It is earlier than the White Queen. It is of a beautiful waxy white color and grows 1 $\frac{1}{4}$ inches in diameter and $\frac{3}{4}$ of an inch thick, with finely formed bulbs, slightly flattened at the top. Its earliness will highly recommend its use as a substitute for onion sets. An excellent bunching and pickling sort. Pkt., 5c; oz., 40c.

1125. Mammoth Silver King. In appearance, the most striking Onion grown. We hardly know which to command the most, its large size, symmetrical appearance and beautiful, silvery flesh or its sweetness, tenderness and mild flavor. These qualities make it the best for exhibition and fancy high-priced trade. Not recommended for the extreme North except for bunching. Pkt., 5c; oz., 40c.



Northrup, King & Co.'s Minnesota White Globe Onion.

1110. White Bermuda. The bulbs are quite broad and flat white, as in our American varieties, but rather a pale straw; flesh crisp, solid and mild in flavor. The plants are extremely thin-necked, insuring even and early ripening. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

1055. Paris White Silver Skin. An early, small, round, white variety. Excellent for bunching and pickling. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00.

1058. White Lisbon. A large, round, fine white Onion of excellent quality. An exceptionally early variety, fine for using green or bunching. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

1060. White Pearl or Extra Early Bloomsdale. While originally from Europe this is now fairly entitled to rank as an American variety. It is a pure silvery-white Onion of very quick growth, frequently maturing in seventy days from sowing the seed. Bulbs are flattened, of medium size, with silvery-white skin; flesh crisp and mild in flavor. This variety is largely planted for bunching and for sets. Pkt., 10c; oz., 40c.

1065. White Portugal or American Silver Skin. Bulbs medium size, ripening early and uniformly, with beautiful, clear white skin; flat, good keeper, delicate and mild flavor. Used largely for pickles, also as a bunching Onion. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 85c; lb., \$2.75.

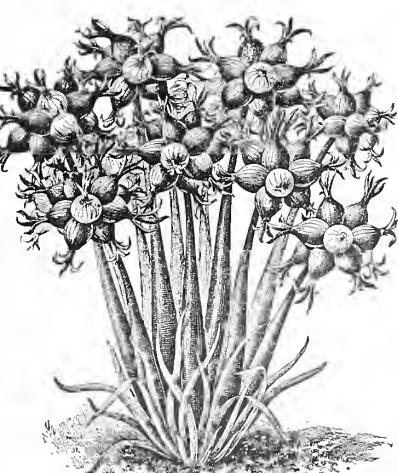
1075. Northrup, King & Co.'s Pickling. (Sold only in sealed packages.) For early bunching, pickling and sets. Small, hard, round; keeps well; pure white, does not turn green when exposed to the sun. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 85c; lb., \$2.75.

1070. White Queen. Small; noted for extreme earliness and mildness of flavor. Bulbs average about an inch in diameter and are much used for pickling. Pkt., 10c; oz., 40c.

**Egyptian Winter,
or Red Perennial
Onion Sets.**

Hardy, for Sept. and Oct. Planting. Order now.

Distinct from other sets, being hardy everywhere. Plant in Fall and leave in the ground all Winter. These sets never form large bulbs but produce the earliest, small, green onions ready for home or market use weeks ahead of any other unsurpassed in sweetness and tenderness. A few inches of coarse litter spread on the crowns after the ground freezes, will prevent root heaving. Orders will be filled in September. Lb., 15c; 3 lbs., 40c; 25 lbs., \$3.00; 50 lbs., \$5.00; 100 lbs., \$8.50. If wanted by mail add 10c per lb. to cover extra cost. See following page for Onion Sets for spring planting.

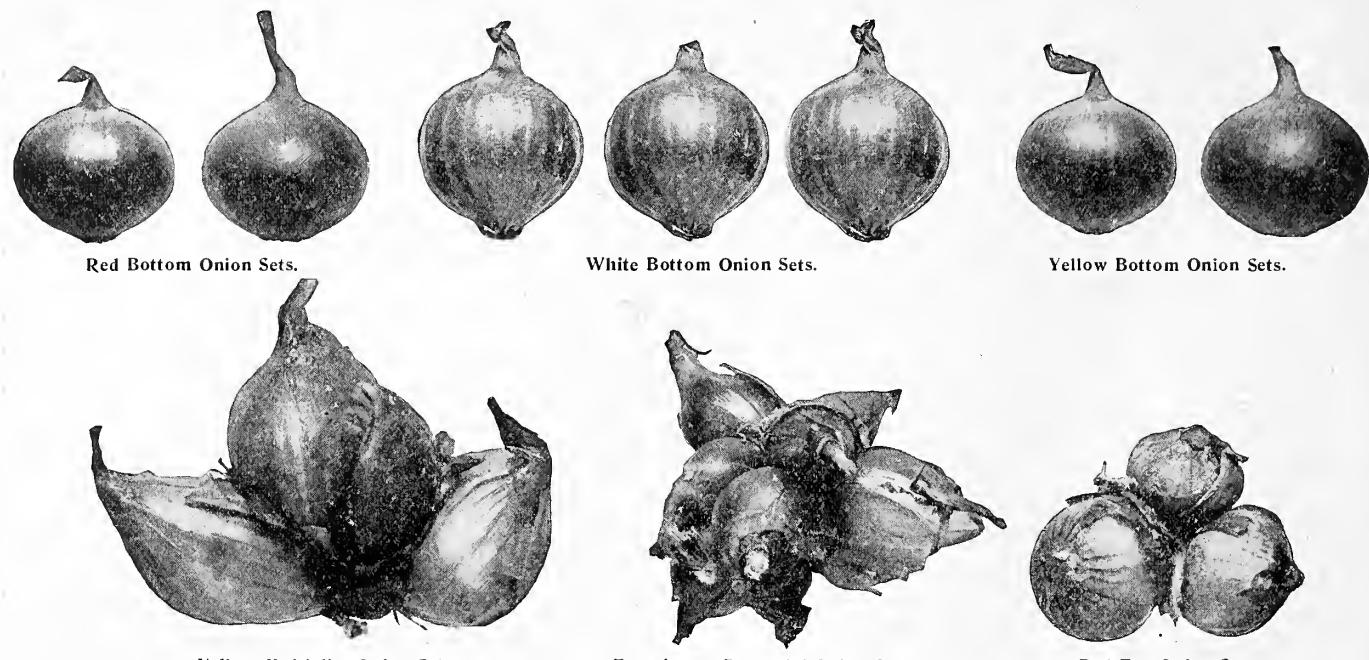


Egyptian Onion Sets.

Northrup, King & Co., Seedsmen, Minneapolis, Minn.

ONION SETS

We are Headquarters in the Northwest for Strictly No. 1 Northern Grown Onion Sets.



Red Bottom Onion Sets.

White Bottom Onion Sets.

Yellow Bottom Onion Sets.

Yellow Multiplier Onion Sets.

Egyptian or Perennial Onion Sets.

Red Top Onion Sets.

The Importance of Using Northern Grown Onion Sets.

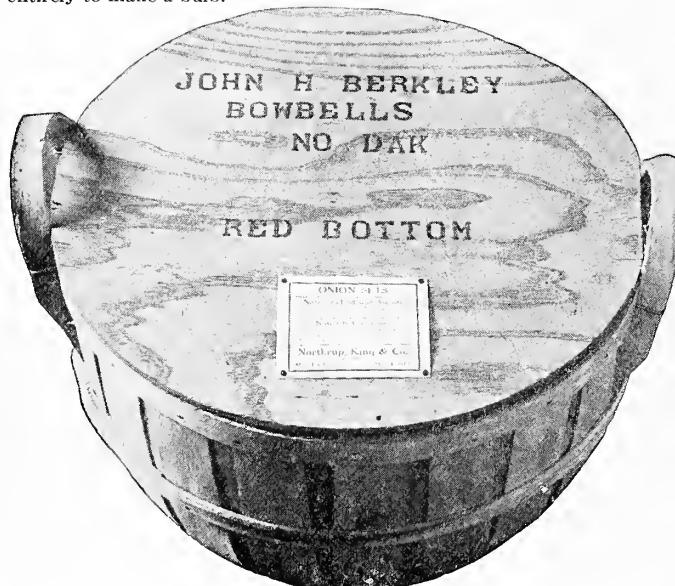
The planting of Onion Sets is increasing rapidly year after year. They are used for several purposes. The Bottom Onion Sets produce a large Onion ready for market from four to six weeks earlier than can be had by sowing the seed and the product of the set is the same as that obtained by sowing seed. This enables the grower to sell his entire crop earlier in the season, at which time prices usually are higher than when the bulk of the crop reaches market. It also permits the sowing of another crop on the land the same year. Bottom Sets also produce good green Onions on most any soil in half the time it takes to raise them from seed.

Bottom Onion Sets are produced by sowing seed very thickly and they are harvested before they have reached full development. Our sets are small, one inch or less in diameter, dry and unsprouted.

Multiplier Onion Sets are formed through the division of the bulbs into many smaller ones; they are not grown from seed.

Red Top Sets are produced like seed on the top of the stalks. Top Sets make large bulbs one year and top sets the next.

We grow our own Onion Sets which enables us to produce hard, sound, clean sets of the best quality. As they are used to obtain Onions earlier than they can be had from seed, it follows, therefore, that Northern grown sets will produce Onions earlier than Southern grown sets. We clean them thoroughly so as to be free from trash and rubbish, which is so often included with many of the Onion Sets ordinarily sold. In the Spring of the year our sets are hard and sound, while at that time Southern sets are very often dried and shriveled and so lifeless that they either grow slowly or fail entirely to make a bulb.



A Safe Method of Shipping Onion Sets.

About Prices. Since the value of Onion Sets fluctuates greatly, our prices are subject to market changes. The prices below are those existing at the time of publication. Top sets weigh 28 lbs. per bushel, all others 32 lbs. per bushel. All transportation charges on Onion Sets are to be paid by the purchaser, except where quoted postpaid. For methods of packing Onion Sets see below.

If you plant Onion Sets in large quantities ask us for prices.

White Bottom Sets. These are small, solid and of a beautiful ful silvery white, a favorite sort in private and market gardens. Lb., 25c, (postpaid, 35c); 5 lbs., \$1.15; 10 lbs., \$2.20; 25 lbs., \$5.25; 50 lbs., \$10.00; 100 lbs., \$18.00

Red Bottom Sets. Northern grown. Bright, deep red in color, even and dry. The most popular variety. Lb., 25c, (by mail, 35c); 5 lbs., \$1.15; 10 lbs., \$2.20; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

Yellow Bottom Sets. Produced from seed which makes the finest yellow sets. Fine and dry, medium in size and unsprouted. Lb., 25c, (by mail, 35c); 5 lbs., \$1.15; 10 lbs., \$2.20; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

Red Top Sets. These are planted to produce both early green onions and large eating Onions. We wish to call special attention to the fact that our stock is the genuine Red Top Set, unmixcd with Egyptian Winter Sets, which are always cheaper, but practically worthless for spring planting. Lb., 35c, (postpaid, 45c); 5 lbs. at 30c per lb.

White Multiplier. These are of a pure silvery-white color which runs up the stem, the flavor is very sweet and mild, superior to green Onions from other sets. They are enormously productive, frequently producing as many as twenty Onions in a single cluster from one bulb planted; of excellent quality and size for bunching. Ready for delivery on or about June first. Lb., 35c, (by mail, 45c); 5 lbs. or more at 30c per lb. at purchaser's expense.

Yellow Multiplier. Often preferred on account of their earliness. Late in June they are fully ripe, and can be gathered. They are very productive, five to fifteen bulbs growing from one bulb set out. Lb., 25c, (by mail, 35c); 5 lbs., \$1.15; 10 lbs., \$2.20; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

Egyptian Winter or Perennial Onion Sets. See page 41.

Garlic. For description and prices see page 33.

How We Pack Onion Sets.

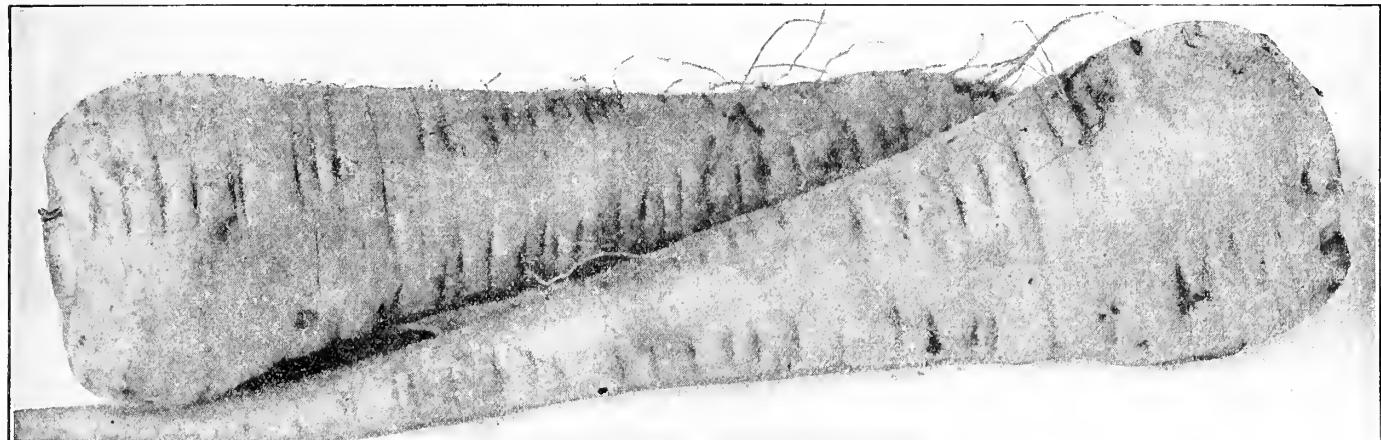
We will pack our Onion Sets in any way our customers desire, in bags, baskets or barrels. Prices named are based on the use of bags. If desired in barrels, we will pack three to four bushel orders and upwards at no additional charge. In our opinion the best, safest and cheapest method is to ship in bushel baskets. These will be furnished at an additional charge of 15c per bushel. In this way they carry safely to any part of the United States. The package is easily handled and perfectly ventilated, the sets are not crushed and the basket can always be found of use to the purchaser. Large buyers of Onion Sets should write us for special prices.

Culture. Soil requirements the same as for Onion seed. Place the Onion Sets 3 to 4 inches apart, according to size, 3 inches deep, in rows 1 foot apart. It is customary to furrow out the soil with a little hand plow early in the Spring, set the Onion in this furrow right side up and cover with a garden rake and if the soil is dry it should be well firmed over the sets; 380 to 480 lbs. of sets required for an acre.

All Onion Sets shipped at purchaser's expense except where quoted postpaid. Took First Premium.

The seeds you sent me were of the usual high quality which I have had from your firm during the last few years. My red onions, which I grew from the Red Bottom Onion Sets, took first premium at the County Fair this Fall.

D. EUGENE ROWELL, Lancaster, N. H.



Northrup, King & Co.'s Sweet Marrow Parsnip.

PARSNIP

Culture. Work the soil very deep and pulverize the surface thoroughly. Sow the seed in early Spring, $\frac{1}{4}$ of an inch deep, in rows 12 to 18 inches apart.

As soon as the young plants appear, cultivate and hand weed them, and when 3 inches high thin to 6 inches apart in the row.

Cultivate sufficiently to keep the soil loose throughout the season. Freezing improves the quality of Parsnips for table use, so it is customary to take up in the Fall when the ground begins to freeze what will be needed for winter use, leaving the remainder to winter over in the ground, or better still, pitting them as is often done with other roots so that access may be had to them at any time.

One oz. of seed for 200 ft. of row; 5 lbs. seed required for an acre.

1135. Northrup, King and Co.'s Sweet Marrow Parsnip.

(Sold only in sealed packages.) This fine new Parsnip of English origin is offered with full confidence that it will become a prime favorite with all who use it. It is very fine grained and exceedingly sweet, while the peculiar "Parsnip" flavor is fully preserved. The roots are unusually smooth and attractive in appearance. The best of all Parsnips for the market or private garden. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

1140. Guernsey.

(Improved Half Long.) A greatly improved strain. The roots do not grow so long as the Hollow Crown, but are of greater diameter and more easily gathered. It is a very heavy cropper. The roots are very smooth; the flesh is fine grained, of most excellent quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

1145. Improved Hollow Crown Parsnip.

Our stock of this old time favorite is very smooth and fine. None better anywhere at any price. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Best of Satisfaction.

All seeds received from you gave the best of satisfaction, especially the Sweet Marrow Parsnip and your Sterling Beet.

(MRS.) MARY MILLS. Perry, Iowa.

PARSLEY

Culture. Sow seed in shallow drills in the early Spring for border or in rows 12 to 18 inches apart; and thin the plants to 4 inches.

Cultivation should be frequent and weeds kept removed.

One oz. of seed will sow 150 feet of row; 6 lbs. of seed required for an acre.

1150. Dark Moss Curled.

The leaves are of an extra dark green color. It is very productive, and on account of the densely curled character of its leaves a quantity can be gathered in a short time. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

1155. Double Curled.

Fine, dwarf, crimped leaves. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

1160. Extra Curled or Emerald Parsley.

Dwarf, lea. This is a most beautiful variety. The moss-like leaves, of a handsome bright green color, are finely curled. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

1165. Fern Leaved.

This is most exquisite in form and color—invaluable as a garnishing plant, and suited for mixing with dwarf ornamental foliage plants in the flower garden. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

1170. Plain, or Single Parsley.

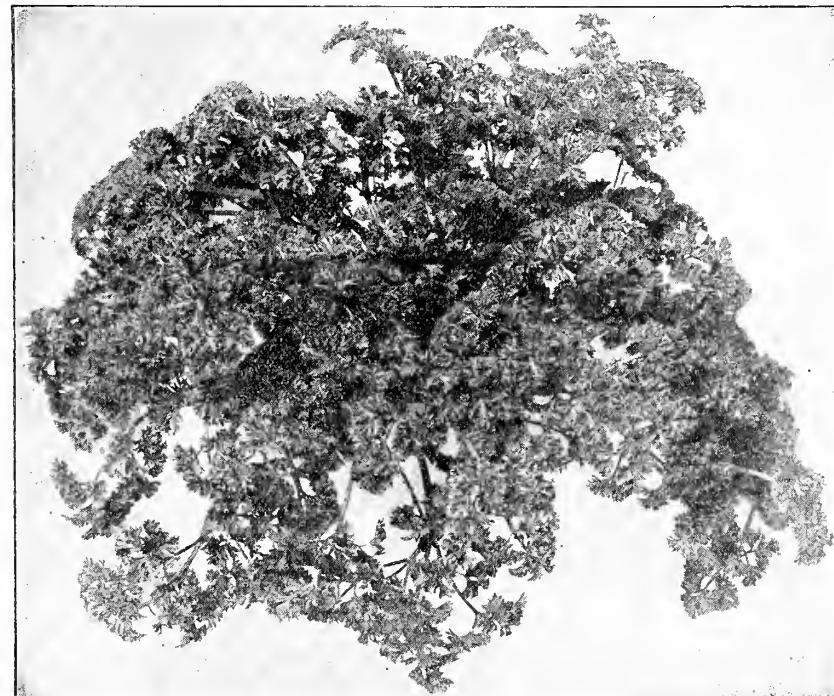
Leaves flat, deeply cut but not curled. It is very dark green, is hardy and of excellent flavor, and for these merits is often preferred. It is used more for flavoring while the curled sorts are used for garnishing. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

1175. Turnip Rooted, or Hamburg Parsley.

The edible portion is the fleshy root, which resembles a small Parsnip, and is esteemed for flavoring soups, stews, etc. The flesh is white, a little dry with the flavor of Celeriac. The foliage is the same as the plain Parsley. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

Cannot Praise It Too Highly.

I have always found your garden and flower seeds thoroughly reliable, quick to germinate, and with proper care have produced fine vegetables and flowers. This is especially true of the Parsley. It is the best I ever had. I cannot praise it too highly. DOROTHY BENN, Iowa.



Dark Moss Curled Parsley.



Turnip Rooted Parsley

PEAS

HARDY, NORTHERN GROWN STOCK.

Our Peas are Northern Grown. They are produced at an altitude of 5000 feet or more, making them the earliest, hardiest and most productive Peas obtainable. In addition, the localities where they are raised are free from insects and other damaging pests. For many years we have made a specialty of Peas and now grow thousands of acres where a few years ago we grew hundreds. Much skill and knowledge is required to properly grow Seed Peas and we employ experts of long experience to handle our crops. Our Peas are carefully grown, kept true to type, are bright, handsome, sound and of strong germination.

Those wishing to purchase large lots of Peas should write us for special prices, stating varieties wanted and quantities of each. We have an immense trade in Peas, extending over the entire United States and while present stocks are large, they may not be adequate to the demands made upon them. For that reason, we urge early orders to avoid disappointment on the part of our customers.

Round seeded varieties weigh 60 lbs. per bushel, wrinkled sorts, 56 lbs. per bushel.

Prices. At the following prices on Peas, packets and quarter pounds are sent prepaid, all larger quantities by express or freight at purchaser's expense. If wanted by parcel post add postage at rates on page one.

Culture for Garden Peas. Sow seed 2 to 4 inches deep in rich soil very early in the Spring and for a succession put in varieties that mature at different periods, or if dwarfs only are desired, sow a few rows every 10 days throughout the season. For hand cultivation sow in rows 15 inches apart, but if grown on a large scale it is best to sow in rows from 2 to 3 feet apart and cultivate them with a horse.

Tall growing Peas may be sown broadcast to advantage upon very clean soil or new breaking. They may be supported with a woven wire fence or poultry netting. Sow in double rows eight inches apart and stretch the wire support between the rows. Fasten securely at each end with posts using stakes between the posts.

Two lbs. of seed will plant 100 ft. of row; 115 to 140 lbs. of seed required an acre in drills, and if broadcast 175 lbs.

SIX UP-TO-DATE VARIETIES OF GENUINE MERIT

They Should be in Every Garden.

Great advances have been made in recent years in the quality of garden Peas. Anyone who has not tried some of the newer varieties can hardly appreciate how delicious these improved sorts are. Plant these six varieties and be convinced.

1352. Alderman. This is a very large podded Pea, very robust and vigorous, producing pods of the largest size. The pods are even larger and longer than the average large podded sorts, and are well filled with large Peas of most excellent flavor. In habit, the vines are strong and branching, bearing rich, deep-green, straight, handsome pods averaging 4½ to 5 inches in length, pointed at the end. This variety belongs to the tall growing main crop of Peas. The vines are from 3½ to 4 feet in height. A point of superiority which must not be overlooked is the unusual flavor and quality of the Peas. As is true of most wrinkled varieties they are delicious, but the Alderman is of a quality surpassing many of the others. Also a good sort for shipping. Be sure to include Alderman Peas in your order.

Pkt., 5c; ¼ lb., 15c; 1lb., 25c; 5lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

1304. Dwarf Defiance.

Grows about 2 feet high and matures an abundance of large, dark green pods about mid-season. In production it compares favorably with the taller, later varieties. The Peas are large and of splendid quality, sweet and of fine flavor. Pkt., 5c; ¼ lb., 15c; 1lb., 25c; 5 lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

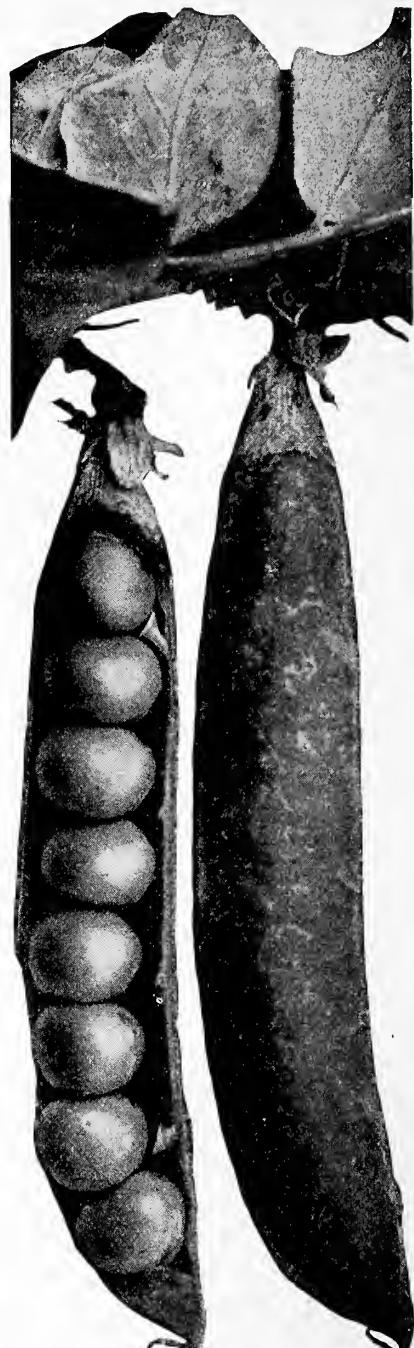
1317. Laxtonian. A new first unexcelled value. It is not only early but is of splendid quality and unusually productive. Although it is a dwarf sort, growing only 15 to 18 inches in height, it excels in yield and equals in size of pod, the Gradus. The pods are deep bluish-green, pointed at the end, generally borne singly and measure 4 to 4½ inches in length. The peas number 7 to 10 to the pod, are large in size and of delicious flavor. The vines are vigorous in growth, deep green in color and require no support. Pkt., 5c; ¼ lb., 15c; 1lb., 25c; 5 lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

1338. Little Marvel. An extremely valuable variety, especially suited to small home gardens, and is also a splendid variety for early market gardening.

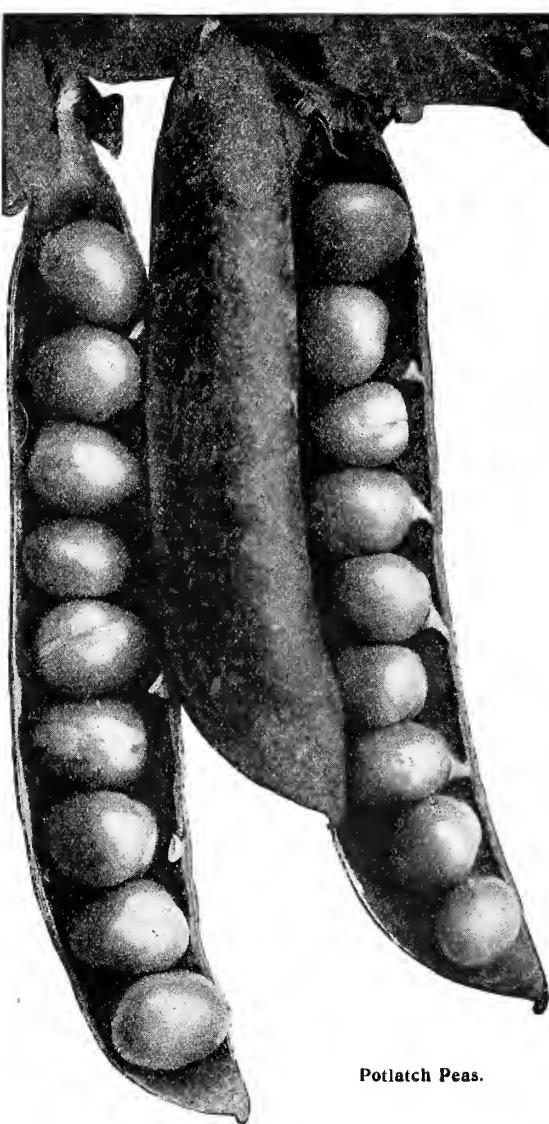
It matures very early and produces large crops. The vines grow about 15 to 18 inches in height. The pods are dark green, fair sized, produced in pairs and are closely filled with seven to eight Peas of extra fine flavor. Pkt., 5c; ¼ lb., 15c; 1lb., 25c; 5 lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

1275. Potlatch. A fine, new variety of great merit. The vines are vigorous, growing 15 to 18 inches high, with dark green foliage. The long pods are a rich, dark green in color, often measuring six inches in length, with 8 to 9 enormous peas in a pod. The vines are sturdy and the pods are borne in pairs. It is wonderfully productive and the way the Peas shell out is astonishing. Potlatch matures early and is unusually satisfactory to grow. Pkt., 5c; ¼ lb., 15c; 1lb., 25c; 5 lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

1342. Richard Seddon. The pods are deep green, crowded with from 7 to 9 large 20 inches in height. An extremely early type, maturing only a week later than the Alaska, when sown at the same time. A splendid all around early variety. On account of its immense productivity, evenness of maturity, compact well filled pods and excellent color and quality, it is especially desirable for canning purposes. We found many plants in our fields last season bearing 15 to 20 pods, with a total of 100 to 150 large, fully formed, luscious Peas to the plant, proving the immense productiveness of this variety. Pkt., 5c; ¼ lb., 15c; 1lb., 20c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.50; 50 lbs., \$10.00; 100 lbs., \$18.00.



Alderman Peas.



Potlatch Peas.

1917 Collection of Up-To-Date Peas.

One Packet Each, Six Varieties of Merit.....	25c, postpaid.
One-Fourth Pound Each, Six Varieties of Merit.....	80c, postpaid.
One Pound Each, Six Varieties of Merit.....	\$1.50, by express or freight at purchaser's expense; if wanted by parcel post add postage for 7 lb. package, at rate on page one.

PEAS

EXTRA EARLY ROUND SEEDED VARIETIES.

These sorts are most largely grown by gardeners for the early market. They ripen more uniformly than any other Peas and where the stocks have been properly bred and kept rogued, from 75 to 80 per cent of the pods can be stripped from the vine at the first picking, enabling the grower to secure the highest prices. Round seeded varieties are not as sweet as the wrinkled sorts. Round seeded or smooth Peas weigh 60 lbs. per bushel. See page 1 regarding prices on Peas.

1280. Northrup, King & Co.'s Summit Extra Early.

(Sold only in sealed packages.) Height 2½ to 3 feet. Seeds white. The "Summit" holds the record as the earliest and most even in maturity of the white seeded varieties. A great favorite with gardeners for early market. The entire profit on the crop sometimes depends on being able to market Peas early before the larger and later varieties are ready. Pkt., 5c; ¼ lb., 10c; ½ lb., 20c; 5 lbs., 90c; 10 lbs., \$1.65; 25 lbs., \$3.75; 50 lbs., \$7.00; 100 lbs., \$13.00.

1285. Alaska. Height uniform in maturing its crop. The vines are very productive, bearing four to seven pods which are filled with medium sized, bright bluish-green Peas of good flavor. Pkt., 5c; ¼ lb., 10c; ½ lb., 25c; 5 lbs., \$1.10; 10 lbs., \$2.00; 25 lbs., \$4.50; 50 lbs., \$8.50; 100 lbs., \$15.00

1290. First and Best. Height 2½ to 3 feet. Standard, white seeded extra early. Vines are vigorous and hardy, bearing from three to seven pods, each containing from five to seven medium sized Peas of good quality. Pkt., 5c; ¼ lb., 10c; ½ lb., 20c; 5 lbs., 90c; 10 lbs., \$1.65; 25 lbs., \$3.75; 50 lbs., \$7.00; 100 lbs., \$13.00.

EXTRA EARLY DWARF WRINKLED VARIETIES.

These require no brushing and are in large demand for family use. All of the following sorts are early, being but a few days later than the Round Seeded Sorts. Wrinkled Peas weigh 56 lbs. per bushel, according to the Minnesota State Law.

1330. American Wonder. Height 10 inches. This variety heads the list of Peas in flavor and quality. It is a cross between the well known Champion of England and the Little Gem and has the merits of both, together with features not found in either of the parent varieties. The vines bear a great abundance of good sized pods containing five to eight large, exceedingly sweet, tender and well flavored Peas. This is the earliest of the dwarf, wrinkled varieties, being nearly as early as the smooth sorts. The seed is medium sized, wrinkled and pale green. These Peas are especially adapted to family use as they require no brush or other support. Pkt., 5c; ¼ lb., 15c; ½ lb., 25c; 5 lbs., \$1.10; 10 lbs., \$2.00; 25 lbs., \$4.50; 50 lbs., \$8.50; 100 lbs., \$15.00.

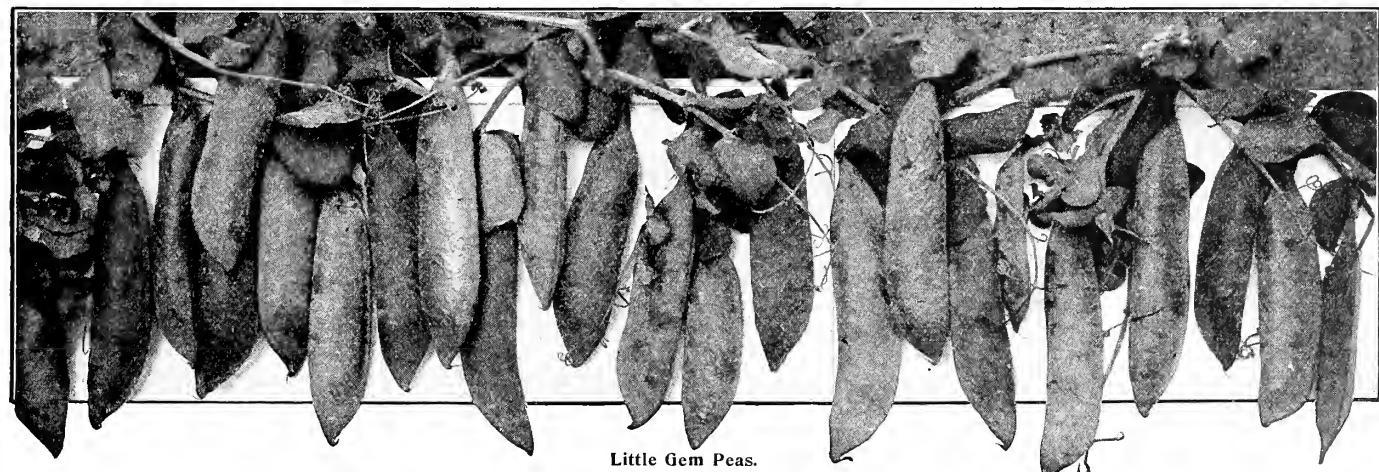
1335. Little Gem. Height 16 to 18 inches. The vines are of dwarf growth and produce an abundance of round, well filled pods 2½ to 3 inches long, only three days after the American Wonder. The Peas are green, wrinkled, of sweet, delicious flavor and excellent quality. One of the best for family use. It remains fit for use longer than the American Wonder and Nott's Excelsior, and thought by many to be sweeter. Pkt., 5c; ¼ lb., 15c; ½ lb., 25c; 5 lbs., \$1.10; 10 lbs., \$2.00; 25 lbs., \$4.50; 50 lbs., \$8.50; 100 lbs., \$15.00.

1338. Little Marvel. See page 44 for description and prices.

1340. Nott's Excelsior. Height 14 inches. This sort resembles the American Wonder but grows



1342. Richard Seddon. See page 44 for description and prices.



Little Gem Peas.

EARLY WRINKLED VARIETIES.

Most of the following sorts are nearly or quite as early as the round seeded extra earlies, but they do not mature so uniformly. This, while making them less desirable for early market purposes, makes them better for family use as they will stand longer in fit condition for the table. They are much sweeter than the round seeded sorts. Wrinkled Peas are sold at 56 lbs. per bushel, complying with the Minnesota State Law.

1300. Advancer. Height 2 to 2½ ft. Seeds green, wrinkled. This variety is a great favorite in eastern markets on account of its superior flavor. The pods are broad and long and well filled to the ends. This sort is extensively used by canners on account of its quality and appearance. It is a very productive and satisfactory variety. Pkt., 5c; ¼ lb., 15c; ½ lb., 25c; 5 lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

1270. Carter's Daisy. (Early Dwarf Telephone.) Dwarf, large podded, needs no brush. The striking features of the Daisy Pea are its large pods and the way in which they

are heaped up in ridges on the short, strong vines. The pods are nearly double the size of American Wonder or Little Gem, and are always well filled with large Peas of most excellent quality. The vines are 16 to 18 inches high, and being strong and thrifty require no support, making it an ideal variety for use where brush or stakes are not available. This Pea is desirable on account of the fine appearance of the pods, and always finds a ready sale. Pkt., 5c; ¼ lb., 15c; ½ lb., 35c; 5 lbs., \$1.60; 10 lbs., \$3.00; 25 lbs., \$6.75; 50 lbs., \$12.50.

1302. Dainty. A few years ago we tried out a small quantity of this new variety. It was so satisfactory that we secured some of the seed from which we produced our stock. We grew this splendid sort on our trial grounds several years and found it a superb variety not only for home use, but unexcelled for canning purposes. The vines grow two to two and a half feet high; pods are borne in pairs in great abundance; the Peas grow eight to ten in a pod and are very sweet and delicious. Pkt., 5c; ¼ lb., 15c; ½ lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.50; 50 lbs., \$10.00.

PEAS

EARLY WRINKLED VARIETIES.

1303. Delicatesse. This Pea has gained great renown among connoisseurs, who consider it a great delicacy. It is fairly early, vines grow 18 to 24 inches high, are very prolific; pods are long, curved and hang in pairs. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., \$1.60; 10 lbs., \$3.00; 25 lbs., \$6.75; 50 lbs., \$12.50.

1304. Dwarf Defiance. See page 44 for description and prices.

1305. Gradus. (Prosperity.) The earliest wrinkled variety. This grand, large podded, early, prolific variety has won the hearts of market gardeners everywhere. The vines are very vigorous and robust, growing to a height of about 3 feet. It is not only an abundant producer, but bears continually throughout the season. It is exceedingly early for a wrinkled variety, being only a day or two later than the earliest, small, smooth sorts. The pods are very large and are invariably well filled with from six to nine sweet, luscious, tender, wrinkled Peas of large size and delicious flavor. The Peas remain tender for some time after they are large enough to use. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.50; 50 lbs., \$10.00; 100 lbs., \$18.00.

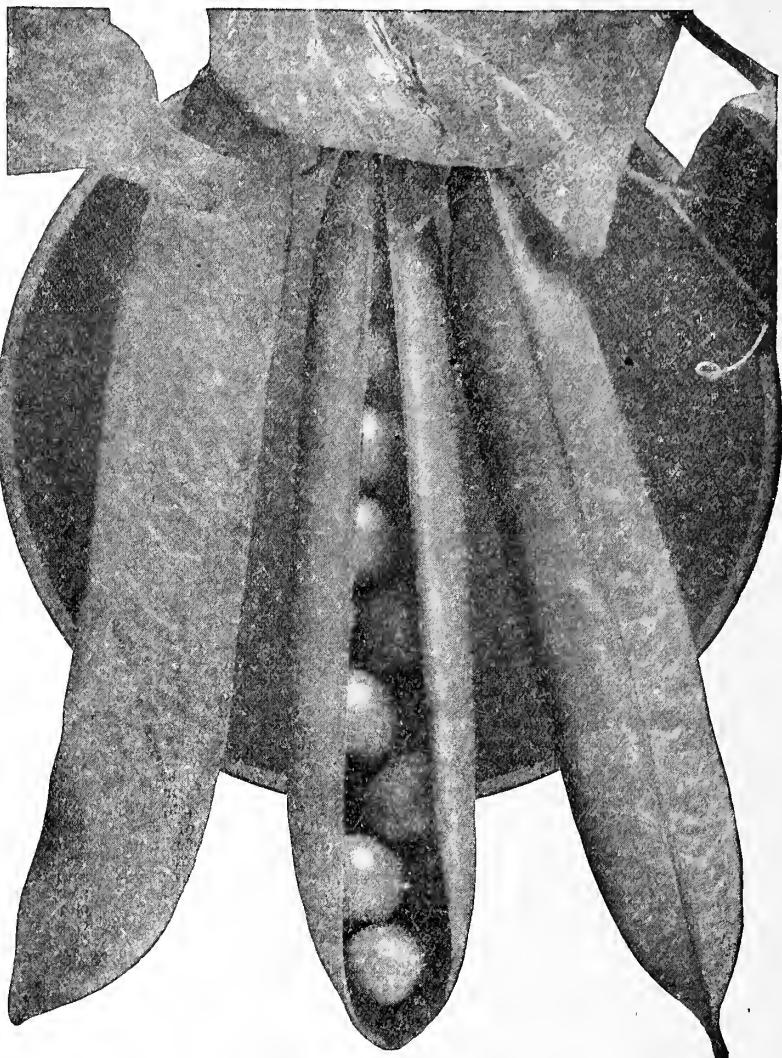
1310. Honey Sweets. The strong, stiff vines grow from 12 to 15 inches high and require no brush or other support. The pods are similar in shape to the American Wonder but are broader and longer and are borne in greater abundance, the vine being fairly loaded with pods. They are two or three days later than the Wonders but the pods contain more Peas, there being on the average 7 or 8 in each. In flavor they are excellent, sweet as honey, rich and delicious. This is a splendid sort for both home and market use. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 25c; 5 lbs., \$1.10; 10 lbs., \$2.00; 25 lbs., \$4.50; 50 lbs., \$8.50; 100 lbs., \$15.00.

1315. Horsford's Market Garden. Height 2 to 2 $\frac{1}{2}$ ft. Seeds green, wrinkled. In all respects very similar to the Advancer Pea, but an improvement on that variety in point of productiveness. Flavor very fine. The Peas are rather smaller than the Advancer, but are fully equal in other respects. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 25c; 5 lbs., \$1.10; 10 lbs., \$2.00; 25 lbs., \$4.50; 50 lbs., \$8.50; 100 lbs., \$15.00.

1317. Laxtonian. See page 44 for description and prices.

1320. Surprise. (Eclipse.) Height 1 $\frac{1}{2}$ to 2 feet. The vines need no brushing or support. Seeds green, wrinkled. Ripens as early as the smooth, round seeded, extra earlies and is much sweeter. The pods are well filled, containing six or seven Peas of fine quality. The Peas are not so large as the American Wonder, but Surprise is more productive and much earlier. It is the very earliest green wrinkled sort and an excellent variety for both the market and home garden. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 25c; 5 lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

1325. Thomas Laxton. Large podded, extra early Pea. This fine early Pea was raised by crossing Gradus with the Alaska. In earliness the Thomas Laxton is only two or three days behind the Alaska, but the pods are very much larger, containing on the average seven or eight large, sweet, wrinkled Peas of the very richest flavor. The vines attain a height of from three to three and one-half feet. It is of harder constitution than the Gradus, and is earlier and of darker colored pod. In flavor this Pea is unsurpassed. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.50; 50 lbs., \$10.00; 100 lbs., \$18.00.



Gradus Peas.

MAIN CROP VARIETIES.

Planted at the same time as the extra earlies or dwarf varieties, these come into bearing when other sorts are gone. For the most part they stand a long time fit for table use, and as a rule they are, except when noted, sweeter than the early sorts. The pods are large and they stand longer in fit condition for use. Wrinkled Peas are sold at 56 lbs. per bushel in compliance with the Minnesota State Law.

1350. Abundance. Height 2 to 2 $\frac{1}{2}$ feet, seeds green, wrinkled. This is a heavy yielding variety and is a capital sort for family use, as in addition to its yielding capacity it possesses great sweetness and general fine table qualities. The pods are round, 3 to 3 $\frac{1}{2}$ inches long and well filled with from 6 to 8 Peas. It stands fit for use a long time. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 20c; 5 lbs., 90c; 10 lbs., \$1.65; 25 lbs., \$3.75; 50 lbs., \$7.00; 100 lbs., \$13.00.

1352. Alderman. See page 44 for description and prices.

1360. Champion of England. 4 to 5 feet in height. This has been considered for a long time the standard main crop or late Pea for summer use. From this variety has sprung the whole race of green wrinkled Peas. The vines are very vigorous and productive, bearing an abundance of large, well-filled pods. The Peas are light green, wrinkled, of fine quality and delicious flavor. Hardly any Pea is sweeter than this. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 25c; 5 lbs., \$1.10; 10 lbs., \$2.00; 25 lbs., \$4.50; 50 lbs., \$8.50; 100 lbs., \$15.00.

1265. Colossus. New, sweet, wrinkled, mammoth podded Pea. This splendid Pea is of the same large podded type as the Telephone, but the pods are larger and the Peas sweeter. Excelling, as it does, in these particulars the well-known sort mentioned, the Colossus Pea surpasses all other large-podded varieties in another particular, that of productiveness. In other words, a pint of Colossus Pea pods will yield as many shelled Peas as a quart of most other sorts; a bushel as many as two bushels. Quality is always to be preferred to quantity, but a Pea which will give better quality and larger quantity is the Pea to plant; that Pea is the Colossus. We urge early orders, and that at least a small quantity of these Peas be included with every order, as far as possible. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 25c; 5 lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

1362. Duke of Albany. Resembles the Telephone in appearance, but the vine is not quite so tall, being 2 $\frac{1}{2}$ to 3 feet in height. The pods are larger than the Telephone and produced more abundantly. They measure 4 to 4 $\frac{1}{2}$ inches long and are light green in color. Peas are light green and very much wrinkled. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 25c; 5 lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

1370. Everbearing. Height 2 $\frac{1}{2}$ to 3 feet. As the name indicates this variety continues long in bearing and is very prolific. It is probably the best sort for late Summer and Autumn use. The broad pods, which are of a nice green color, average three inches in length. The Peas are very large, green, wrinkled and of excellent quality. They cook very quickly, are tender and of superior flavor. Excellent for family use. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 20c; 5 lbs., 90c; 10 lbs., \$1.65; 25 lbs., \$3.75; 50 lbs., \$7.00; 100 lbs., \$13.00.

1372. Gladstone. Of strong and robust growth. Plants remain healthy for a long time during drought. Vines grow two to three feet high and yield an abundance of long, curved, pointed pods. Each pod contains seven to nine Peas of splendid flavor. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25 lbs., \$5.50; 50 lbs., \$10.00; 100 lbs., \$18.00.

1275. Potlatch. See page 44 for description and prices.

1375. Stratagem. Height 20 inches. The foliage is large and the vines strong and robust, requiring no support. It is very prolific and bears many very large, well-filled pods containing large, dark green, wrinkled Peas of rich, sweet flavor. Our stock is very fine and of first-class quality. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 25c; 5 lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

Please note that at these prices on Peas, pkts. and quarter lbs. are prepaid but all larger quantities are sent at purchaser's expense. If wanted by parcel post add postage at rates on page one.

The varieties of Peas we offer are those which have been demonstrated by actual trials on our grounds to be adapted to growing in the North. In addition to our own seed Peas we annually inspect many varieties from all sections of the world, to discover, if possible, new strains or varieties worthy of introduction. We carefully test every lot of Peas for germination before they leave our hands. Peas of low vitality are not permitted to go out of our house.

Book on Peas and Pea Culture. By Glenn C. Sevey. A very complete book on this subject, including garden Peas, field Peas and Sweet Peas. One chapter deals with Peas for canning purposes. A thoroughly up-to-date and interesting book. 120 pages, cloth binding. Price, 50c, (post paid, 55c).

PEAS

MAIN CROP VARIETIES.

1260. *Teddy Roosevelt.*

A Giant Podded Main Crop Pea.

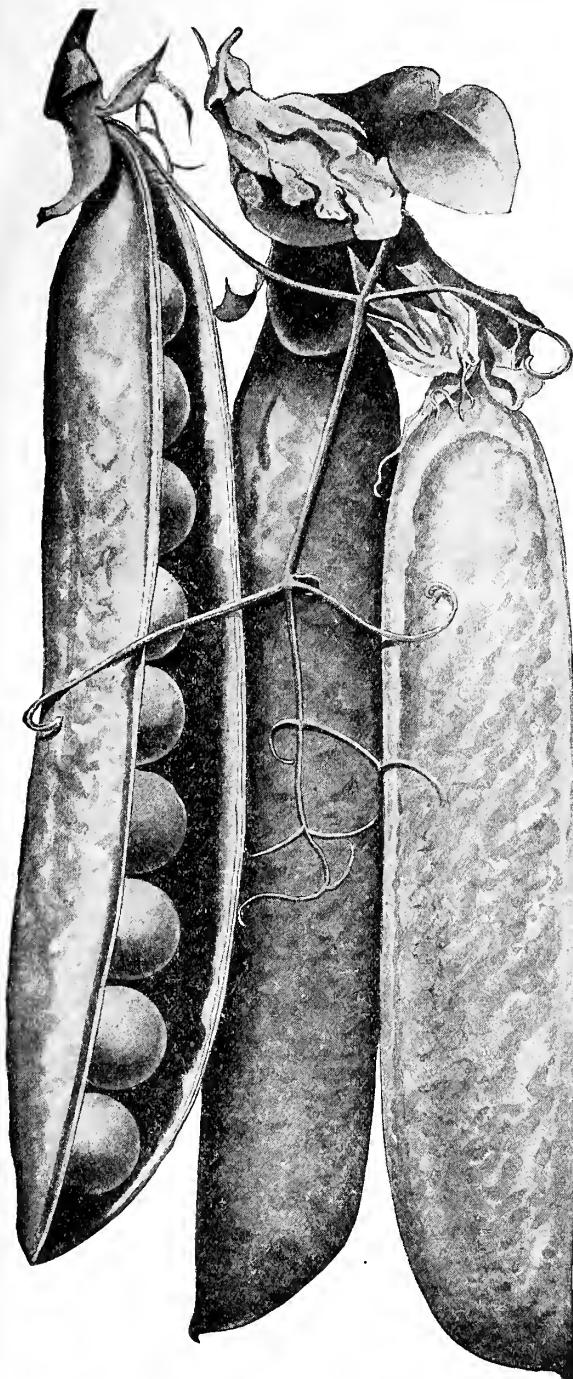
The largest "podder," surest "cropper" and heaviest "yielder" of all the main crop sorts. The Telephone and Stratagem were the first large-podded Peas to be introduced. Naturally they created a sensation because they were advertised widely, and are at present the most largely used in America of any of the large-podded varieties. They have, however, one serious defect, the pods contain very few Peas.

This fault has been remedied in some of the later introductions, and notably so in the *Teddy Roosevelt*. This grand Pea resembles the Telephone in color of pod and foliage, and in habit of growth, but the pods are larger and contain more Peas. A bushel of pods will shell out nearly twice as many Peas as the Telephone. The vines are enormously productive, being completely covered with immense long pods, well filled with from 8 to 9 large Peas of the richest flavor. This variety grows from 4 to 5 feet high and, as an abundant cropper, is superior to all other sorts.

Nothing in the long line of Peas excels the *Teddy Roosevelt* in richness, sweetness and flavor, and it ought not take a gardener long to figure out that a bushel of pods that will give as many Peas as two bushels of other varieties is the kind to grow. The demand is so great every year for *Teddy Roosevelt* Peas that our stock is usually exhausted early in the season. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 25c; 5 lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

1385. Telephone. This is now the leading Pea with market gardeners, as it is in all particulars a market garden variety. It comes into bearing fairly early, yields abundant crops of large, fine appearing pods and Peas are sweet and luscious. This variety meets with the ready approval of buyers, when placed on sale and is therefore a popular sort with Pea growers. It is a great cropper, continues long in bearing, and fills the basket quickly. The vines grow about $3\frac{1}{2}$ to 4 feet in height, are very vigorous and strong and have large, coarse, light colored leaves. Each vine bears on an average seven to ten pods, which are ready for picking in about 65 days. The immense pods are straight, and of fine appearance, and contain eight to nine large, wrinkled Peas, closely packed, tender, sweet and of exquisite flavor. The seed we offer has been carefully selected and is very prolific and will please all who grow this variety this season. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 25c; 5 lbs., \$1.15; 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

1390. White Marrowfat. great quantities of pods which it bears and for canning purposes. The vines are of strong, sturdy growth but mature the pods quite late. The large, cylindrical, light colored pods are well filled with round, smooth, light yellow Peas of somewhat dry and mealy quality. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 20c; 5 lbs., 9c; 10 lbs., \$1.65; 25 lbs., \$3.75; 50 lbs., \$7.00; 100 lbs., \$13.00.



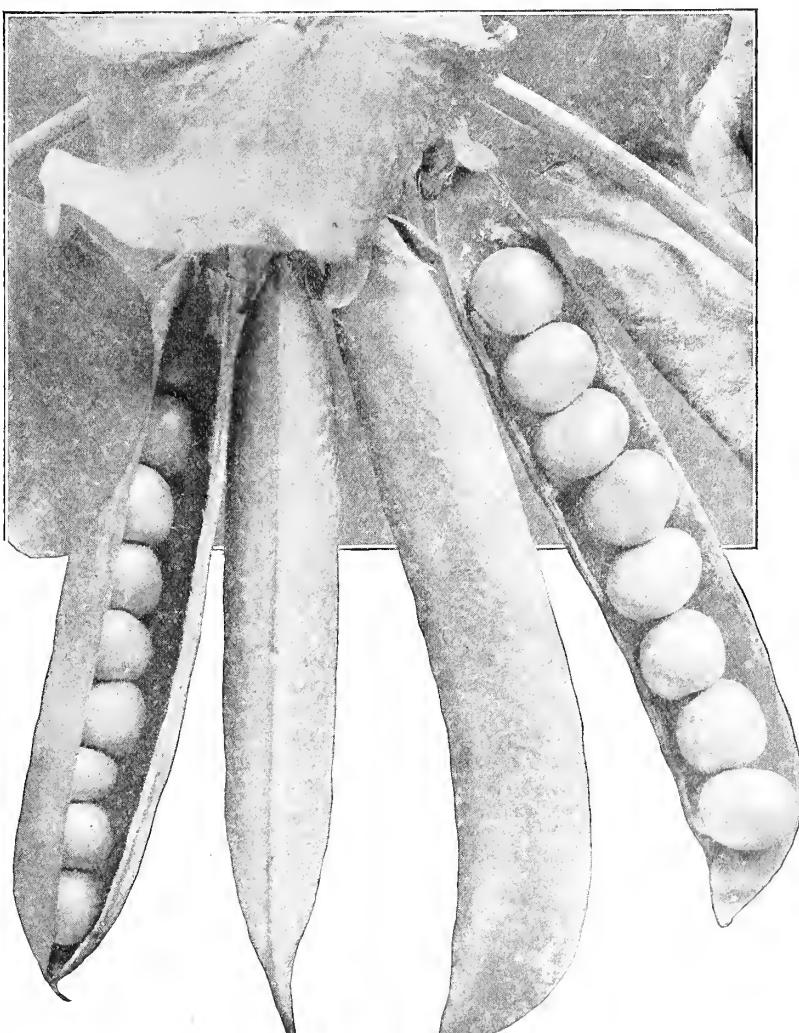
Giant Podded Pea, "Teddy Roosevelt."

1395. Yorkshire Hero. (Big Gem.) Height, $2\frac{1}{2}$ feet. The stout, close jointed vines are very productive, being thickly hung with round, medium sized, well filled pods about 3 inches long. The large yellowish-green Peas are wrinkled and remain fit for use longer than most sorts. They are sweet and tender and never become so hard as some varieties. The quality is very fine and for those who want a rich marrow-like Pea this variety is unexcelled. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 20c; 5 lbs., 90c; 10 lbs., \$1.65; 25 lbs., \$3.75; 50 lbs., \$7.00; 100 lbs., \$13.00.

1400. Dwarf Gray Sugar. This is an edible podded variety. Vines grow only 15 to 18 inches in height, with purplish blossoms. Sugar Peas are not shelled, but pods are cooked same as string beans. Pkt., 5c; $\frac{1}{4}$ lb., 10c; lb., 20c; 5 lbs., 90c; 10 lbs., \$1.65; 25 lbs., \$3.75; 50 lbs., \$7.00; 100 lbs., \$13.00.

1402. Mammoth Melting Sugar. This is another of the edible podded varieties. The pods are picked when the Peas are only half developed and at that stage there is no stringiness, but are sweet, brittle and appetizing. This variety is quite late, growing 4 to 5 feet high and bearing large pods 4 to $4\frac{1}{2}$ inches long, often curved or twisted. Sugar Peas are usually very scarce, but we have a limited stock of fine quality to offer this year. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 25c; 5 lbs., \$1.15, 10 lbs., \$2.15; 25 lbs., \$5.00; 50 lbs., \$9.00; 100 lbs., \$16.00.

Please refer to page one for postage rates on Peas.



Telephone Peas.

PEPPER

Culture. Plant seed $\frac{1}{2}$ inch deep in the hot bed in March, or in boxes in the house, set in rows about $1\frac{1}{2}$ feet apart each way in the garden about corn planting time. One oz. of seed will produce 1,500 plants.

1180. Chinese Giant. An enormous fruiting variety, double the size of Ruby King, averaging 12 to 15 inches in circumference. Notwithstanding its large size, it is very early and very prolific. Plants are healthy, well branched, about two feet high and carry an enormous load of fruit, often having the appearance of being bunched together. Flesh is thick, tender, mild and sweet, and is unexcelled for salad or stuffed as mangoes. They can be sliced and eaten like tomatoes. When ripe the Peppers are a rich, glossy scarlet, making them of unusually fine appearance. Pkt., 10c; oz., 50c.

1185. Golden Dawn. Similar to the Large Bell or Bull Nose, excepting that it is of golden yellow color, and of very sweet and delicate flavor. Pkt., 10c; oz., 50c.

1190. Large Bell or Bull Nose. A large, early, bright red variety, mild in flavor. Desirable for pickling and mangoes when green. Pkt., 10c; oz., 35c.

1200. Long Red Cayenne. A late variety. Pods are small, bright scarlet, cone shaped and pungent. Are as much used for pickling when green as when ripe. Pkt., 10c; oz., 40c.

1202. Neapolitan. A standard market sort on account of its earliness and productiveness. It is 2 weeks ahead of Bull Nose. The large fruits are light green with thick, mild flesh. As they ripen they turn red. Pkt., 10c; oz., 40c.

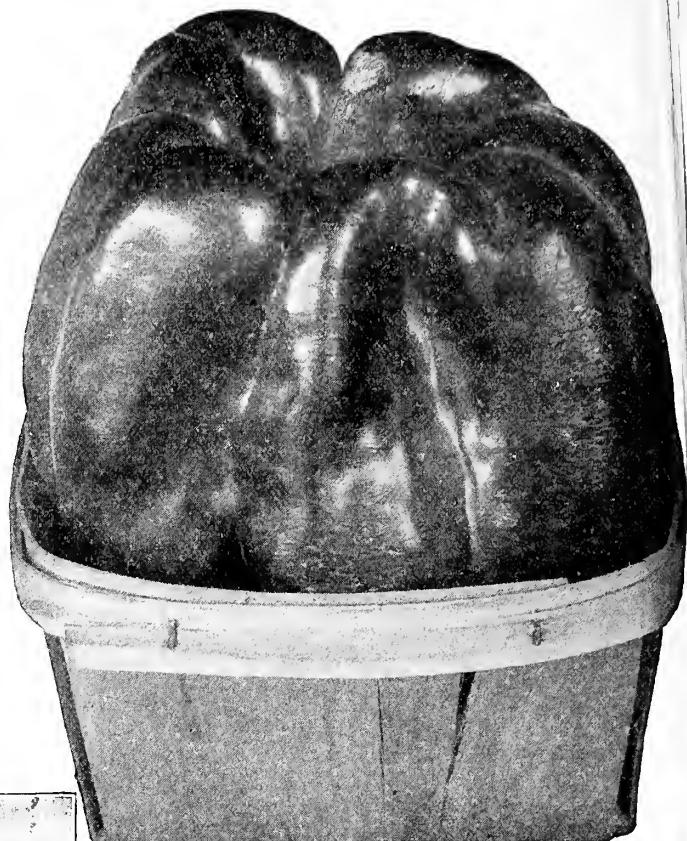
1205. Red Cherry. Fruit cherry shaped, small, round, bright red. Largely used for pickles. Pkt., 10c; oz., 40c.

1210. Red Chili. Fruit is small, bright red, very hot and pungent. Plants are very productive. Generally used for making Pepper sauce. Pkt., 10c; oz., 40c.

1225. Ruby King. The most popular large fruited Pepper. Very prolific. The pods are a beautiful bright red, 5 to 6 inches long by 3 to 4 inches in diameter. Flesh exceedingly thick, sweet, and so mild that it is often sliced as a salad. Splendid for stuffing as mangoes. Pkt., 10c; oz., 40c.

1230. Sweet Mountain. Similar to Bull Nose, though usually larger in size and longer, of very mild flavor. Much used for mangoes. Pkt., 10c; oz., 35c.

1232. Sweet Upright. Fruits are borne stiffly erect. The color when ripe is glowing scarlet both in the tender skin and thick sweet flesh. Pkt., 10c; oz., 40c.



Chinese Giant Pepper.



Connecticut Field Pumpkin.

PUMPKIN

1235. Northrup, King & Co.'s Mammoth Prize. (Sold only in sealed packages.) The largest pumpkin grown. Has weighed as high as 225 pounds. A prize winner. The flesh is fine grained and the quality is excellent. The flesh and skin are of a bright, golden yellow color. Notwithstanding its large size it is a fine variety for pies and is a splendid keeper. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$1.75.

1240. Connecticut Field. An immensely productive, large, orange-colored, field Pumpkin, usually grown for stock feeding, but it also makes good pies. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

1250. Japanese Pie. A crook neck variety. Early. Seeds are marked very curiously. Flesh deep yellow of fine quality. Keeps well. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

1255. Large Cheese or Kentucky Field. Large, flattened, hardy and productive. About two feet in diameter. A fine keeper. Thick flesh of extra fine quality. A fine sort for family and market use. It is also grown quite extensively for stock feeding. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

1237 Winter Luxury. A splendid pie Pumpkin, small, round, finely netted and beautiful golden-russet. The flesh is thick, sweet, tender, of fine flavor, and deep golden in color. The vines are healthy and productive and the Pumpkins keep well during the Winter. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.



Early Sugar or Pie Pumpkin

1245. Early Sugar or Pie Pumpkin. Small, round, flattened, prolific, deep orange yellow. Flesh fine grained, sweet and of finest quality. A good keeper. One of the best for pies. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

Pumpkin Culture. For seed sown with corn, plant only one row in five, which, when the vines begin to run, may be omitted in cultivation and thus the plants will not be injured. Use a dibber and plant three to five seeds in every third hill of corn. Plant as a single crop in hills eight feet apart each way. Cultivate with a section of the harrow. Use paris green and land plaster or wood ashes to control the striped squash bugs. When well established thin to four plants in each hill.

One oz. of seed will make 25 hills; 4 lbs. seed required for an acre.

All flower and vegetable seeds sent prepaid except where noted.

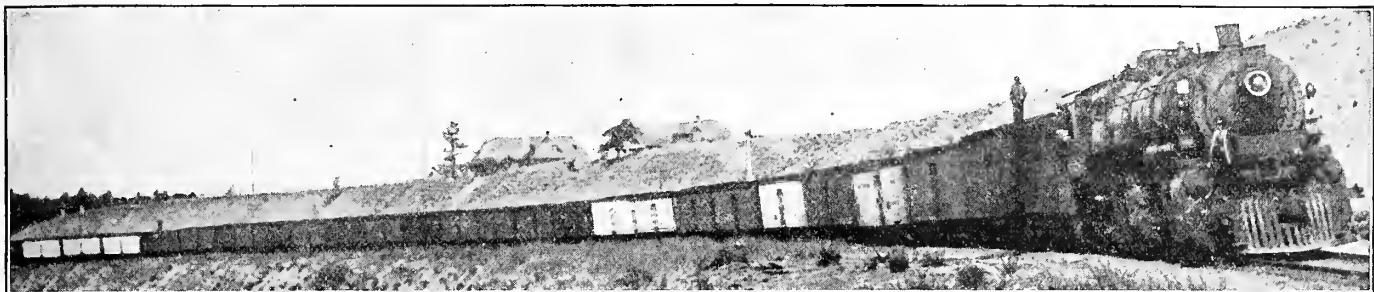
We have used your seeds for five years with unvarying success. The Mammoth Prize Pumpkins grow to enormous size—the envy of all beholders.

J. R. FARNHAM,
Mafield, S. D.

Have used your seeds for five years with unvarying success. The Mammoth Prize Pumpkins grow to enormous size—the envy of all beholders.

(MRS.) J. W. HASTIE,
Mt. Vernon, Wash.

NORTHRUP, KING & CO.'S SEED POTATOES



Many Carloads of Potatoes are Handled by us Every Season.

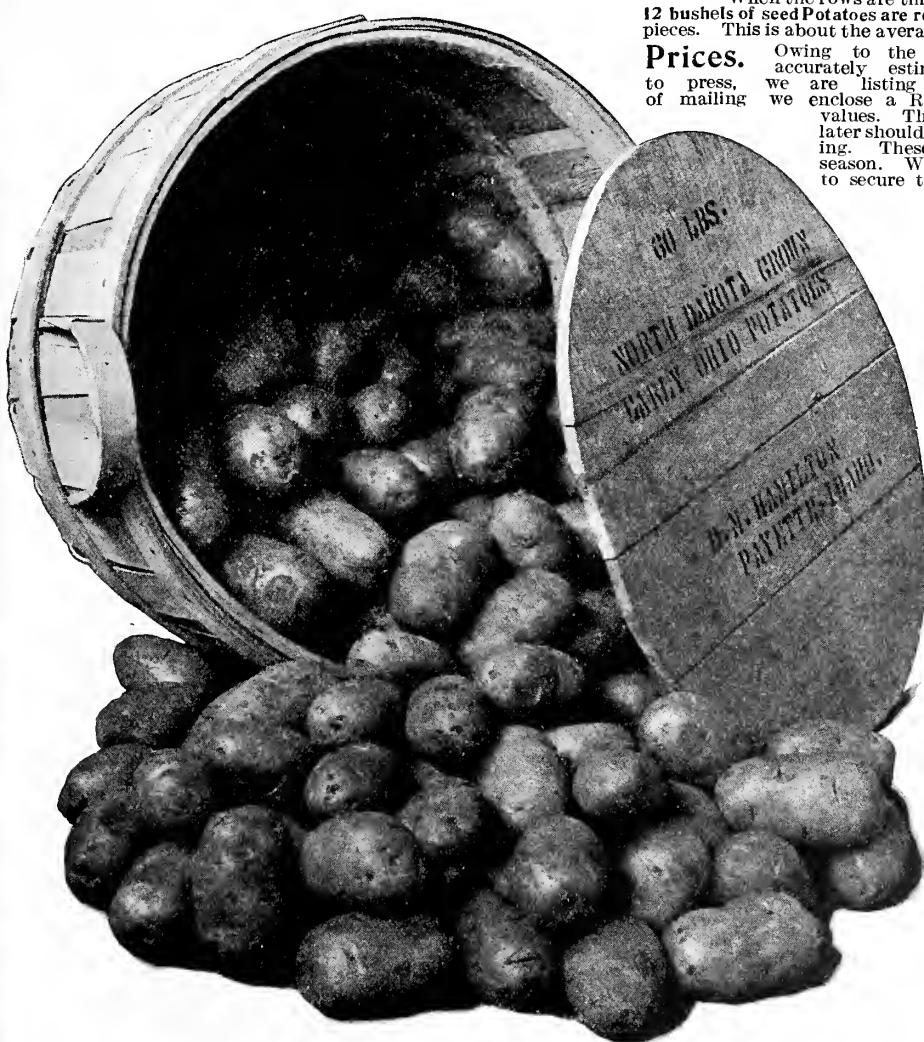
The seed Potatoes we send out are seed Potatoes in every sense that the word Seed should imply. They are not only the best we can supply, but we try to have them the best to be had from any source at any price. To that end they will be hand sorted, selected stock such as anyone will be proud to plant.

Our Potatoes Are Grown in the Far North.

Our stock is grown largely in the Red River Valley of North Dakota. "Red River" stock always commands a premium over Potatoes produced elsewhere. No seed Potatoes can be compared with those produced in the North, either for vigor and freedom from disease, or for producing and long keeping qualities.

Our seed stock is carefully selected for an oval shape and medium size; tubers somewhat flattened and a trifle tapering, with stem end slightly hollowed. They will all be hand graded and screened before shipping.

Our seed is clean and healthy and in order that the product may be equally scabless, we urge customers to treat the seed they plant with Formaldehyde, as the soil may be infected. For price, see page 149.



Northrup, King & Co.'s Extra Early Ohio Potatoes.

Culture.

The soil should be well worked and thoroughly drained. Sandy loam with a clay sub-soil is best. Eight to ten tons of manure per acre should be used if the soil is lacking in fertility.

The hill or row system may be used in planting. If in hills, they may be three feet apart each way or thirty inches one way and thirty-six inches the other. The rows are usually three to three and one half feet apart. The distance between the hills in the row varies from 12 to 16 inches apart for early varieties and 17 to 20 inches for late ones, according to the soil.

On light soils early varieties may be planted, three or four inches deep and late varieties four or five inches deep. Early varieties are planted any time after the middle of April, but there is danger of their being caught by frost if planted before May first. Usually it is best to plant the main crop of Potatoes before the middle of May as early planting usually gives better results than late planting in Minnesota.

The cut seed should be as blocky in shape as possible. Long thin pieces are more likely to rot in the ground. A good method is to begin cutting off pieces at the stem end diagonally across the tuber until just enough is left at the seed end to make two pieces, when this part should be cut in two in the middle so that all the eyes on the seed end will not be left on one piece.

When the rows are three feet apart and the space between hills is 15 in., 12 bushels of seed Potatoes are required per acre, if the seed pieces are cut into 1-oz. pieces. This is about the average rate per acre for this region.

Prices.

to press, we are listing no prices in this catalogue. At the time of mailing we enclose a Red Figure Price List which will give latest values. Those who do not care to order seed Potatoes until later should send for Red Figure Price List just before ordering. These lists are issued at frequent intervals during the season. We believe it would be wise to order early, not only to secure the advantage of the early price, but to avoid also the possibility of varieties becoming sold out later. Those wishing to buy in large quantities should write for special prices, stating varieties and number of bushels wanted.

Date of Shipment. Potatoes will be shipped at any date ordered, but where no special instructions are given to the contrary, we will hold same until in our judgment there will be no danger from freezing.

Northrup, King & Co.'s Extra Early Ohio Potatoes.

Our Own Special Stock.

We consider these to be the earliest, purest and altogether the handsomest stock of Early Ohio Potatoes that the season affords. On these points we challenge comparison with stock from any other source. Many carloads are shipped annually from the Red River Valley to Texas, Illinois, Iowa and other central and Southern states. Experienced growers have learned that it pays well to procure this stock. They are selected with the utmost care and the result is such as to delight everyone who knows and appreciates a good Potato.

The Early Ohio Potato is so well and generally known as to require no extended description. We believe it to be more popular than any other variety, which fact is evidenced by the very large demand we have for it. Our sales on this sort are many cars in excess of the quantity sold of any other one kind. They can be depended upon to give a uniformly good yield under almost all conditions and soils and produce a tuber of an ideal size.

Notwithstanding its earliness, this Potato keeps well. Our stock in the Spring is as sound as a dollar.

The basket of Extra Early Ohio Potatoes in the illustration represents the ideal type, smooth, uniform and of fine, typical shape. This Potato is characterized by pink skin, shallow eyes and blunt ends.

Good Ohio seed stock is scarce and high this season owing to the very short crop in the Red River Valley. Our stock does not run quite so even in size as usual because of the unfavorable weather conditions during the growing season. However we believe it is the best seed obtainable and will prove very satisfactory. See Red Figure Price List.

SEED POTATOES

Rose. This variety has been a great favorite for many years on all markets and many growers still claim that it has never been excelled in quality and productiveness. Potatoes are long in shape, good size and light pink in color at the bud end. They cook mealy and are of the finest flavor. For price see our Red Figure Price List.

Booklet on Potato Culture. Valuable for every Potato grower. Sent free with orders if requested or mailed for 5c in stamps.

Rose Potato.

Early Triumph. (BLISS.) This variety was introduced many years ago by Mr. B. K. Bliss. The Triumph attained at that time no particular favor, but all of a sudden its virtues became appreciated and the demand for it was so great that it sold readily in carload lots for three times the price of ordinary seed Potatoes. There is good reason why the Triumph should be popular. It is from seven to ten days earlier than the Ohio, and that often means a difference of many dollars in the crop. This variety has long supplied the bulk of new Potatoes for the Spring market throughout most of the United States. Its reddish skin shows bruises but little so it can be shipped before it is fully ripe. The Potato is medium to small, squared at the ends. Skin is red, flesh is very white and firm. It is productive, and for several years to come will probably command a higher price among Potato buyers than any other sort. Crop very short this season.

For price see our Red Figure Price List.

Carman Potato.

Rural New Yorker. Originated by the late Elbert C. Carman, and a very distinct and valuable main crop sort. The tubers attain a large size and are of round oval shape. The eyes are few, distinct and shallow. It is a very healthy and vigorous variety. For price see our Red Figure Price List.

Pingree. This is a main crop Potato, named for the late Governor Pingree of Michigan—and pronounced by him the best Potato he had ever eaten. It is productive to an extraordinary degree. The Potato itself is of the size and shape best liked, in nearly all markets. In quality no Potato can surpass it; in fact, in this particular we know few sorts that equal it. Its snowy whiteness when cooked, together with its dry and floury nature, make it a favorite. For price see our Red Figure Price List.

Burbank Potato.

Extra Early Triumph Potato. Carman. The Best Main Crop Potato.

The Carman is already rivaling in popularity the Burbank, and is undoubtedly a much better Potato. Without any exception whatever it is the greatest yielding Potato ever introduced. The tubers are borne very close to the plant, a single turn of the fork turning out every Potato. It is of a large size and of the shapeliest form. Eyes are few and shallow. It is a perfect keeper, and is not surpassed as a table variety. Skin and flesh of extreme whiteness. It rarely has a hollow heart or dark parts. We recommend this Potato to our customers as being undoubtedly the best of all late sorts.

For price see our Red Figure Price List.

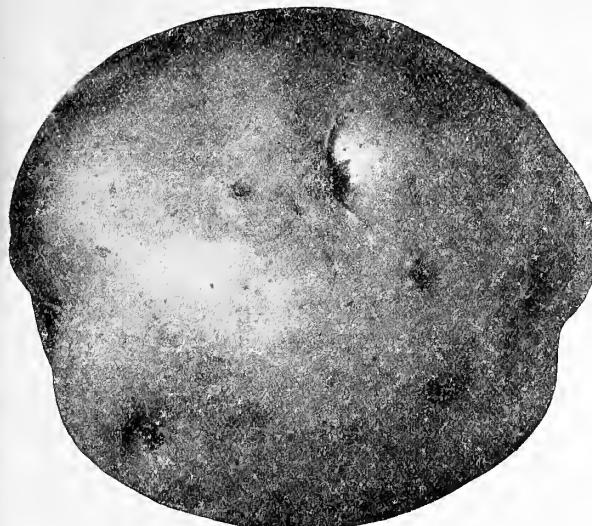
Rural New Yorker Potato.

Burbank. A Standard Late Variety.

Continues in good demand and is more largely used than any other. It is of good size, of fine form and an excellent yielder. The flesh is white, very mealy and of fine flavor and quality. A fine Potato for baking. This variety is well adapted to light soils. For price see our Red Figure Price List.

Potato Booklet.

Our new Potato Booklet is now ready. This gives complete cultural directions and many valuable hints regarding the crop. A copy will be sent free with Potato orders upon request.



Irish Cobbler Potato.

Irish Cobbler.

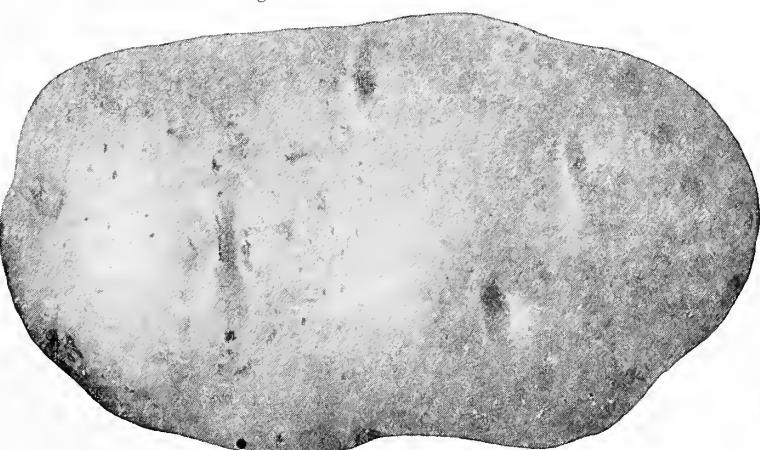
For years this was the leading early variety of Maine, from where it spread south and west. It is a trifle earlier than the Early Ohio but under some conditions will make a heavier crop.

The tubers are round, somewhat flattened with rather deep eyes and are medium to large in size. The skin is smooth, finely netted, and white in color. Flesh white of fine quality and flavor.

This is a very vigorous grower, far less liable to knot and crack than many varieties and is nearly immune to the internal brown spot that affects some other sorts. It is a splendid shipper. For price see Red Figure Price List enclosed herewith or a new copy will be mailed upon request.



See cover page for explanation of these brands.



Early White Albino Potato.



A Dollar Box of Potato Eyes. (From a Photograph.)

SEED POTATOES**Early White Albino.****A Grand, Heavy Yielder of Splendid Quality.**

This splendid new Potato was only recently introduced in the Northwest but is already earning a reputation for quality and heavy yields that is pushing it rapidly to the front.

The Potatoes are somewhat similar to the Ohios in shape but are larger and do not run quite so even as the type has not had time to become so well fixed. They are oblong to cylindrical, square at the stem end and rounded at the seed end; slightly flattened and thick. The tubers are very solid and extremely heavy for their bulk, weighing up to 2½ lbs. each. In season they are about ten days later than the Early Ohio. The skin is a creamy white and flesh clear white. They are exceptionally mealy and white when baked, with a delicious flavor.

Early White Albinos are a very fine variety for shipping, and storing for spring use, as their tough skin and firm flesh prevent bruising when handled, and they keep hard and sound until Spring. As the market for old Potatoes is generally very firm just before the new crop is ready it is frequently a good proposition to store Potatoes until then, providing one has good storage facilities and long keeping tubers, like Albinos.

These Potatoes are exceptionally heavy yielders. In seasons rather unfavorable for Potatoes in the Red River Valley where this stock was grown, the Albinos, in spite of a late Spring and August frosts yielded splendidly. Our grower there admits he is "in love with them."

The vines are of medium height, stocky and upright in growth, with strong, heavy foliage, indicating the great vigor of the stock. The tubers set close together in the hill so they are easily turned out by hand or digger. Plant them early in good soil and the results at harvest time will delight you.

It is doubtful if we will have any of this variety to offer this season. All available kinds will be found on Red Figure Price List.

POTATO EYES BY MAIL**The Best Way to Secure Planting Seed.**

We believe that we are the originators of the system of sending Potato eyes by mail. There are many people living in cities or towns who have a small garden and would like to devote a portion of it to Potatoes, but do not feel like paying the freight or express charges on a small quantity of seed. The freight alone on a few Potatoes necessary to plant this space would amount to as much as we ask for the eyes delivered at your door.

The importance of securing Northern Grown Potatoes should be taken into careful consideration. Our stocks were all grown for seed purposes largely in the Red River Valley, conceded by every one to be the ideal location for the propagation of this tuber. By careful selection we take the very best Potatoes, from which the eyes are cut. These are prepared in such a way that they will keep in good condition for a considerable length of time.

There are numerous advantages in procuring Potato eyes, which can be briefly summed up.

First—It has been conclusively proven that Potatoes cut to single eyes give results generally satisfactory on good soil.

Second—No freight or express charges to pay, as we pay the postage.

Third—They can be sent without danger of freezing. A customer can secure them in ample time for planting without incurring this risk.

Fourth—By our improved method of preparing the eyes for shipment, they will keep in good condition for a month or more.

Fifth—There are many who would like to try some of our varieties for the first time. By purchasing eyes this can be done at a very slight expense.

Sixth—We guarantee safe arrival, in good condition for growing.

QUANTITY TO PLANT.

If planted in hills allow three or four eyes to each; if in rows, far enough apart to permit cultivation, drop eyes about every eight or ten inches. Cultivate the same as ordinary cut tubers. Eyes are packed in neat boxes, properly and plainly labeled (see engraving) each small box containing 25 eyes. We can furnish all of one variety or several varieties, but no less than 25 eyes of any sort will be put up.

OUR OFFER FOR \$1.00.

We will send to any address, postpaid, 100 Eyes, (25 each) of the following splendid sorts: Northrup, King & Co.'s Extra Early Ohio, Burbank, Extra Early Triumph, Carmen. This is the way to secure your planting stock of new varieties for less than the freight would cost on the whole Potatoes. We pay the postage.

Two Bushels from Twenty-five Eyes.

The Pingree potatoes shown in the enclosed photograph were raised from 25 eyes bought from you. The yield was two bushels from the 25 eyes.

JOHN FRIDGEN, Vining, Minn.

RADISH

The Secret of Growing Good Radishes

The secret of growing good radishes consists chiefly in the observance, on the part of the grower, of three points. First, they should be grown on light quick soil. Second, they should be given plenty of water, and last, but not by any means least, the right kind of seed should be sown. Radishes grow very quickly and if not supplied with sufficient moisture are likely to be pithy.

Sow seed $\frac{1}{2}$ inch deep in the early Spring in rows 1 foot apart and the more fertile the soil the faster they will grow. For a succession, sow every 10 days throughout the season and stir the soil sufficiently to keep out weeds.

One oz. of seed required for 100 ft. of row; 8 to 10 lbs. of seed will plant one acre.

EARLY ROUND RADISHES.

Northrup, King & Co.'s

1405. Sterling White Tip Radish.

Sold only in Sealed Packages.

After several years' experience in growing many strains of White Tip Radish we gave this particular sort the name "Sterling," because of its fine shape, its uniformity, its handsome appearance, its solidity, its superiority in every respect to all other strains of this type of Radish. It is very early and equally desirable for outdoor culture and forcing under glass. When placed on the table it is of particularly fine appearance. In flavor, no other Radish excels it, being crisp, sweet, mild and delicate, all that may be desired in a radish. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; $\frac{1}{2}$ lb., 70c; lb., \$1.25.

1410. Early Deep Scarlet or Non Plus Ultra, Forcing.

This variety has as small a top and is as early as any in cultivation, making it one of the best for forcing under glass. Roots ready to pull may be had in three weeks and they remain fit for use longer than any other early variety. They are small, globular, smooth, very deep red in color; flesh is white, crisp, tender and mild in flavor. May be planted very closely owing to their small tops. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

1418. Early Scarlet Globe.

A selected forcing strain especially adapted for greenhouse and hot bed culture, but may be grown outdoors also with the best results. The shape is a little longer than round and the color, which it holds long after pulling, is very brilliant and attractive. Has a small top and is very early, being fit to pull as soon as Non Plus Ultra, but is much larger when matured. The flesh is white and tender making it desirable for gardeners whose markets demand a large first early radish. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

1420. Early Scarlet Turnip, White Tipped.

Practically the same as the Rosy Gem, except that it is not quite so early but is used mostly for outdoor culture. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

1425. Early White Box.

Similar to the White Turnip, but attains larger size. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c.

1430. Early White Turnip.

A medium sized round variety, grown very largely for summer use. Has a small top and pure white skin. The flesh is waxy, mild and crisp. While generally used for outdoor culture, this makes a good variety for forcing. It takes about 30 days to mature and remains fit for use a long time. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c.

1435. Rosy Gem.

We have a very clean and beautiful strain of this popular sort. It is extremely early, maturing in 25 days, and is largely used for growing both under glass and outdoors. It is round, bright scarlet and has a handsome white tip. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

1440. Ruby Pearl.

A small turnip-shaped, bright red Radish with a pure white tip which includes the tap-root. This variety is more brightly colored than the Scarlet Turnip, White Tipped and will soon rival it in popularity. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

1445. Sparkler.

White tipped Radishes are justly popular by reason of their attractive appearance, but the varieties already in existence are either too dull in the ground color or lack a clearly defined white tip.

This quite distinct variety fulfills every requirement in each respect, the color being a rich carmine scarlet with a very pronounced tip of the purest white. The roots even when fully developed are solid, crisp and sweet, and remain fit for use as long as the coarser kinds. It is equally well adapted for forcing in frames or growing in the open ground, for while the leaves are small, they are sufficiently large for bunching. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

1450. Triumph Radish.

This is a decidedly unique novelty in Radishes. It is very early, maturing about twenty days from the time of sowing. It is globe-shaped; the tops are short, which makes it valuable for growing under glass. The flesh is very crisp, solid and of mild flavor. The ground color is pure white, striped horizontally with bright scarlet. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

1455. Yellow Ball.

or Summer. A fine summer variety, of quick growth, producing crisp, tender Radishes even in the hottest weather and for that reason is grown extensively in the South. Roots are uniformly globe-shaped; skin is golden yellow in color and flesh is mild in flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

Book on Vegetable Gardening.

By S. B. Green.

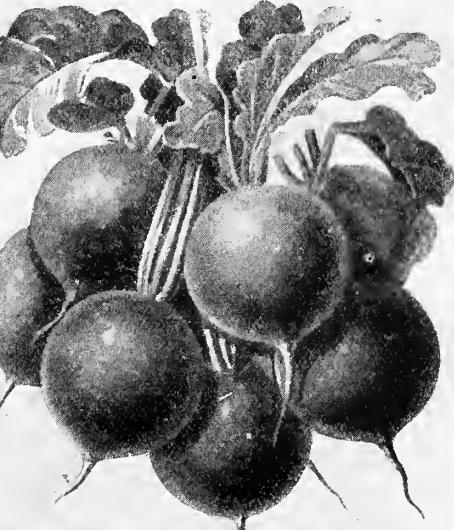
A complete manual on the growing of vegetables and the arrangement of the home garden. Practical and comprehensive; 252 pages. Price, cloth cover, \$1.00; paper cover, 50c, postpaid.

Book on Asparagus. By F. M. Hexamer. A practical, new treatise on the best methods of raising, cultivating, harvesting, marketing, forcing and canning asparagus. Price, 50c (postpaid, 55c).

Book on Bean Culture. By Glenn C. Sevey. The only complete authoritative and comprehensive book on the subject. Price, 50c (postpaid, 55c).

N. K. & Co.'s
Sterling White Tip.

N. K. & Co.'s
Special French Breakfast



Early Deep Scarlet Turnip.

RADISH

EARLY OLIVE SHAPED RADISHES.

1460. Early Scarlet Olive.

A very useful variety. Matures in 25 days; color, bright scarlet; flesh, crisp and tender. Best adapted for main crop. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

1462. Northrup, King & Co.'s Special French Breakfast.

(Sold only in sealed packages.) Of all the large number of different strains of Radishes grown in this locality this past season, none surpassed in fine quality or appearance, this new variety. It is oblong in shape, has a bright scarlet top and pure white tip. It matures quickly and is sweet, crisp, solid and tender. When offered for sale it quickly attracts the buyer's attention. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

1465. French Breakfast. Regular Strain.

A great favorite. Beautiful, bright scarlet, with pure white tip. Oblong in shape, medium size, makes rapid growth. It is a fine table variety on account of its excellent quality and attractive appearance. Fine for open ground or forcing. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

1470. White Olive Shaped.

Flesh mild and firm. Of very fine quality. Large pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

LONG RADISHES.

1475. Chartier or Shepherd.

The largest and handsomest summer sort. This variety is ready for the table very early and remains hard and crisp until it reaches a diameter of about an inch and a quarter, thus furnishing good roots for a long time. The color at the top is of a vivid crimson, fading gradually to pure white at the tip. Is delicious in flavor, resists drought effectually. Large pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

1480. Glass or Cincinnati Market.

In appearance this Radish is entirely unique. It is very early, splendid for forcing or open ground. The tops are very small and they may stand close in the row. They grow straight and smooth, from six to seven inches long. The flesh is very tender, crisp and delicious. This is a handsome variety, bright red in color, and remains in good condition for several days. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

1482. Long Cardinal.

A very early variety, fit for use in about 25 days from sowing. It is of a bright red color with white tip. It is especially valuable because of its crisp, tender flesh and fine appearance. It is smooth and uniform and highly colored; the contrast of brightest cardinal with the white tip is both inviting and appetizing. Being early it is very profitable for marketing. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c.

1490. Long White Vienna or Lady Finger.

Pure white in color, of long tapering shape, very attractive in appearance, sweet, mild and delicious. Matures in 25 days. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

1495. White Icicle.

The finest of the early, pure white varieties. Planted in the spring the radishes are ready for pulling in about three weeks from sowing the seed. They are long and slender and clear, pure white, making them very attractive when on sale and on the table. It is crisp and tender both when young and until it attains larger size, thus remaining in condition for use for considerable time. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

1485. Long Scarlet Short Top.

A standard popular sort. Grows to six inches in length, matures in 25 days and can be used before it is fully grown. The roots grow half out of the ground, are very uniform in shape, smooth and very bright red in color. It remains crisp and tender until fully grown. Excellent either for the market or private garden. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 80c.

1500. White Strasburg.

A large, medium long sort, with heavy shoulders tapering gradually to base. Flesh and skin pure white. Solid, fine quality. Resists drought. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c.

1505. Wood's Early Frame.

An improvement on Long Scarlet. Largely used for forcing and a very popular variety with those who know it. Our stock is fine. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

WINTER RADISHES.

The merits of Winter Radishes are little appreciated, probably because they are seldom grown and few people have knowledge of their worth. These grow to large size and keep well for winter and spring use. Sow seed in the middle of June. Include some of these in your order.

1510. California Mammoth White.

Pure white, about one foot long and two or three inches through, tapering regularly to tip. The flesh is tender and crisp, keeping well through the winter. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c.

1515. China Rose.

Bright rose color, flesh firm and piquant, cylindrical, or largest at the bottom, tapering abruptly to small top. One of the best for winter use. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c.

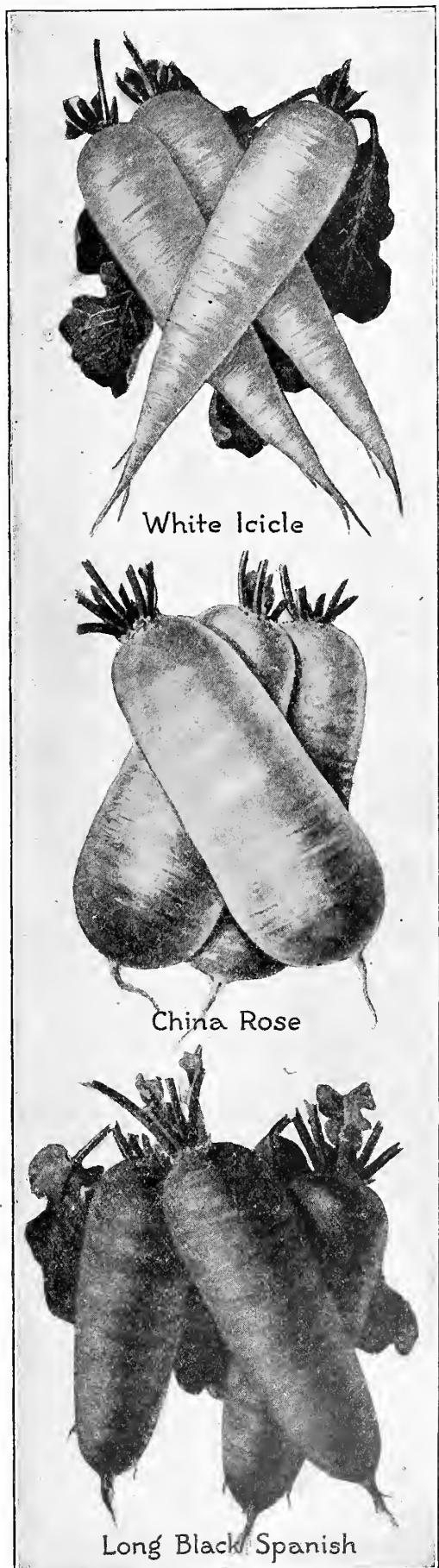
1520. Long Black Spanish.

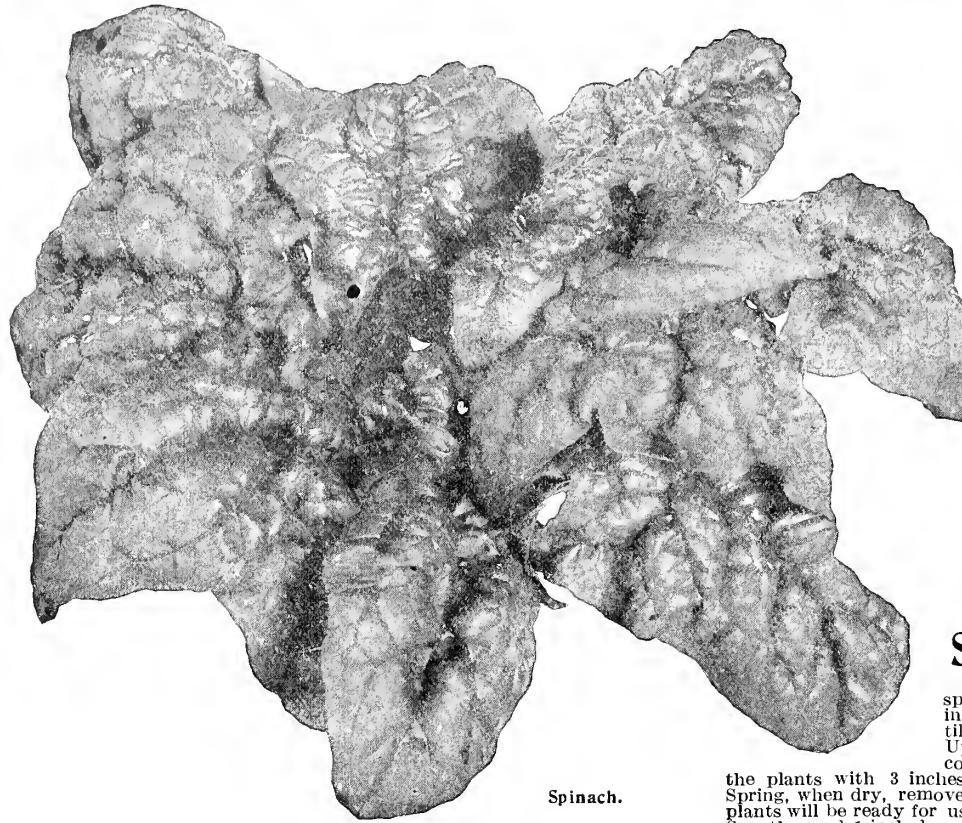
One of the largest, latest as well as the hardest of Radishes. Roots of medium size, oblong, black, and flesh is of firm texture. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

1525. Round Black Spanish.

Roots round, sometimes top-shaped, three or four inches in diameter; skin black; flesh white. Fine for winter use as the roots keep a long time. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Notice. All vegetable and flower seeds sent prepaid, except where noted.





Spinach.

RHUBARB SEED

Culture. Sow the seed in cold frame in the Spring and as soon as the plants are large enough transplant into rows 1 foot apart each way and cultivate. The following Spring, plant out in rows 5 feet apart each way and each Spring work into the soil a liberal supply of decomposed stable manure. Rhubarb roots are set out and cultivated as the above and this method gives edible Rhubarb in a very short time.

One oz. of seed will sow 75 ft. of row.

1538. Rhubarb Seed. Vigorous and productive. The leaf stalks are very numerous, the longer ones being from 15 to 20 inches in length, and fully 1½ inches wide. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

1540. Strawberry Rhubarb.

A delicious variety, yielding heavy crops of light crimson stems which are a beautiful strawberry color when cooked. Pkt., 10c; oz., 75c.

Rhubarb Roots

The planting of Rhubarb Roots is usually more satisfactory than to attempt to start from seed. Both time and labor are saved where the former method is followed. Roots such as we furnish should be set into well enriched soil at least five feet apart each way. The stalks should not be pulled the first season. The blossom stalks, however, should always be cut back so as not to exhaust the plant by going to seed.

Mailing Size. Each, 20c; doz., \$2.00, postpaid. Extra Large. Each, 20c; doz., \$2.00; by express only at purchaser's expense.

SALSIFY or Vegetable Oyster

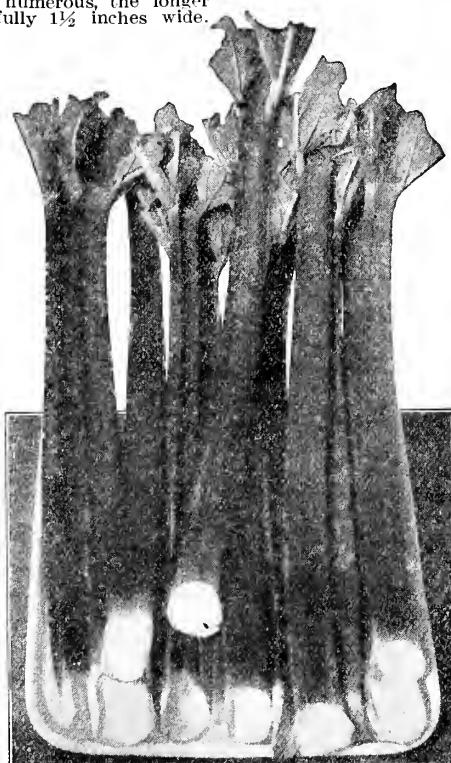
Culture. Soil, seeding, culture and storing same as for parsnip. One oz. of seed will sow 60 ft. of row; 10 lbs. of seed required for an acre.

1550. Long White French. The variety most commonly cultivated and considered the best in flavor. The roots are long, white, smooth and when properly cooked form a good substitute for oysters, which they resemble very much in taste. Pkt., 5c; oz., 20c; ¼ lb., 55c; lb., \$1.75.

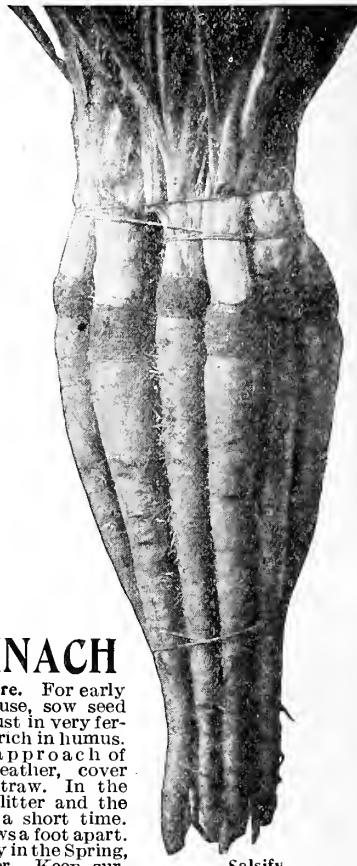
1555. Sandwich Island. Grows uniformly extra large, averaging fully double the size and weight of the roots of the old variety. Of very superior quality and delicate flavor. Pkt., 5c; oz., 20c; ¼ lb., 65c; lb., \$2.00.

Handbook for Garden.

A new and revised edition of this valuable book has been published. It is free with seed orders or will be sent postpaid for 5c.



Rhubarb.



Salsify.

SPINACH

Culture. For early Spring use, sow seed in August in very fertile soil rich in humus. Upon approach of cold weather, cover

the plants with 3 inches of straw. In the Spring, when dry, remove the litter and the plants will be ready for use in a short time. Sow the seed 1 inch deep in rows a foot apart. For a succession, sow again early in the Spring, and every two weeks thereafter. Keep surface soil cultivated lightly.

One oz. will sow 100 ft. of row; 10 to 12 lbs. seed required for an acre.

1565. Bloomsdale or Savoy Leaved. This is the earliest variety. Plant is of upright growth, with narrow, pointed, crinkled leaves. Is very hardy. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

1595. Round Thick Leaved. A rapid growing variety forming clusters of large, very thick, slightly wrinkled leaves. A favorite with market gardeners. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

1572. Long Season. A very dark green, tender, crumpled leaves. It will stand an exceptionally long time without running to seed, and remain in good condition. One of the very best varieties for early spring and successive summer planting. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

1575. Long Standing. This excellent variety comes quickly to maturity and remains in condition for use much longer than other sorts. The leaves are smooth and very dark, rich green. In our estimation the best for the private garden, as it is one of the most popular and profitable with market gardeners. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c.

1580. Long Standing Prickly. A little later than the leafy sorts, but yields a large quantity of thick and finely colored leaves. It remains in condition fit for use for a long time. Seed is prickly. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c.

1570. Munsterland Frost Resisting. A hardy winter Spinach, standing considerable frost. The hardiest of all varieties. Especially adapted for planting in August and very early September. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

1590. Prickly Winter. A very hardy variety and will withstand severe weather especially well. It is a sort used largely for fall sowing. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

1585. New Zealand. The stems and leaves are soft, thick, fleshy and crystalline in appearance. When started early in the Spring, the plants will resist heat and make strong growth during the Summer. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

Garden Cultivators.

A hand cultivator is a great labor saver for the small garden and a horse cultivator is necessary for a large one. See page 152.

SQUASH WINTER VARIETIES.

Culture. Plant seed in extra fertile soil in the Spring as soon as danger of frost is past. The vining varieties should be planted in hills 8 or 10 feet apart each way, and the bush varieties from 4 to 5 feet. Place 10 seeds in a hill and cover with an inch of soil.

When the plants are well started thin out and cultivate.

One oz. of seed required for 25 hills. For running varieties, 3½ to 4 lbs. seed required per acre. Bush varieties require 6 lbs. of seed per acre.

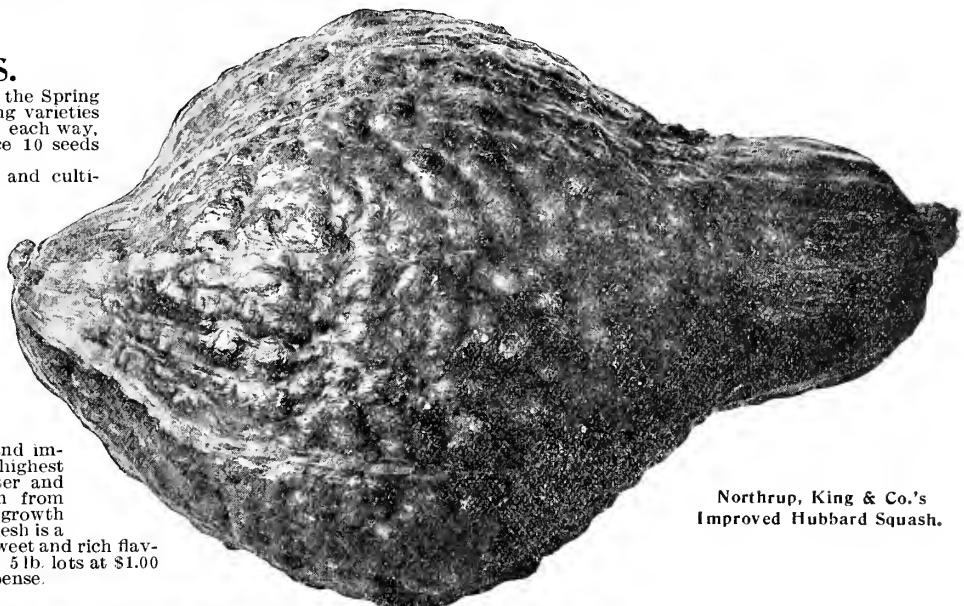
1605. Northrup, King & Co.'s Improved Hubbard.

(Sold only in sealed packages.)

Our own strain of Hubbard Squash is the finest grown.

The soil and climatic con-

ditions of Minnesota are bet-
ter adapted to the proper maturing of
Squash seed than any other section, and
as we have taken special care in selecting and im-
proving our strain, the result is the very highest
type known. It matures earlier, keeps better and
commands a higher price than that grown from
other seed. The vines are of strong, running growth
and bear many large, pear-shaped fruit. Flesh is a
bright orange-yellow, fine-grained, very dry, sweet and rich flav-
ored. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25. 5 lb. lots at \$1.00
per lb., by express or freight at purchaser's expense.



Northrup, King & Co.'s
Improved Hubbard Squash.



Mammoth Chili Squash. As they come from the field.

SUMMER VARIETIES.

1630. Delicata. May be used either as a summer or winter variety. Matures about the same time as the summer varieties, and is of very fine flavor. Orange-yellow, splashed and striped with very dark green. The quality is rich and dry, wonderfully solid and heavy. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

1635. Golden Summer Crook Neck. Early and prolific. The fruits are of the true crook-neck type, heavily warted, and of light golden color, about one foot long. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.

1600. Mammoth Chili. Weigh 100 lbs. or more. **1610. Boston Marrow.** Immensely Profitable. Very Productive. Attains an enormous size, often reaching a weight of 75 pounds, and not infrequently weighs 100 pounds. Despite its size, its flesh is rich and fine flavored. It is especially desirable for stock feeding and exhibition purposes. From the illustration you will note its uniformly large size. For feeding cows it is best to cut them up, mixing with ground feed. As the yield on an acre will run from 8 to 15 tons, it will thus produce a very cheap and nutritious feed. In feeding to swine, all that is necessary is to break the Squashes open and they will help themselves.

Mammoth Chili Squashes carry off the prize at nearly every show where they are exhibited. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

1615. Chicago Warted Hubbard. A large fruited, hard shelled, winter sort, with bright orange skin and deep orange flesh. Vine of strong, running growth and very productive; fruits oval. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 70c.

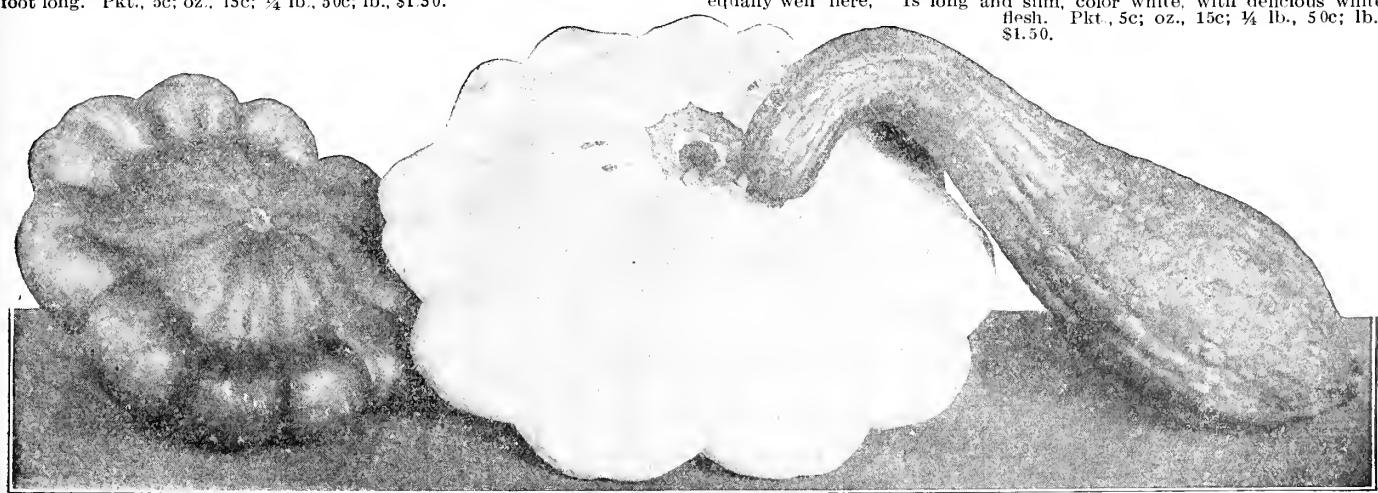
1620. Gregory's Delicious. Is similar in size and quality to the Hubbard. The vines are vigorous and productive, while the large, dark olive-green fruits are rather more heavily warted. An excellent keeper and of splendid quality. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25. 5 lb. lots at \$1.00 per lb., by express or freight at purchaser's expense.

1625. Red or "Golden" Hubbard. In dryness, sweetness and richness of flavor, surpasses all other Squashes. The shell is green in color, the flesh a rich orange. An excellent winter keeper. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

1640. White Bush Scallop. (Patty Pan.) Matures early and will bear throughout the season if fruits are kept gathered. Squashes are clear white and of large size. Flesh is thick and of very fine quality. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

1645. Yellow Bush Scallop. A very early, large flat variety; color, yellow; flesh pale yellow, fine flavor; very small seed cavity. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

1647. Vegetable Marrow. Long White Bush. A very popular sort abroad and can be raised equally well here. Is long and slim, color white, with delicious white flesh. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.



Yellow Bush Scallop Squash.

White Bush Scallop Squash.

Golden Summer Crook Neck Squash.

TOMATO

$\frac{1}{4}$ lb. seed produces plants for 1 acre, 1 oz. makes 1500 plants.



1650. Northrup, King & Co.'s Sterling.

(Sold only in sealed packages.) This is an early, large and perfectly smooth Tomato of perfect flavor, very solid, and strikingly attractive in general appearance. In color it is a glossy crimson, tinged with pinkish purple. It is enormously productive, one plant alone having been known to produce nearly a bushel of ripe fruit. In addition to its earliness it continues to produce ripe fruit until frost. It is, we think, the best of all Tomatoes for family use and is unsurpassed as a money maker for the market gardener. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

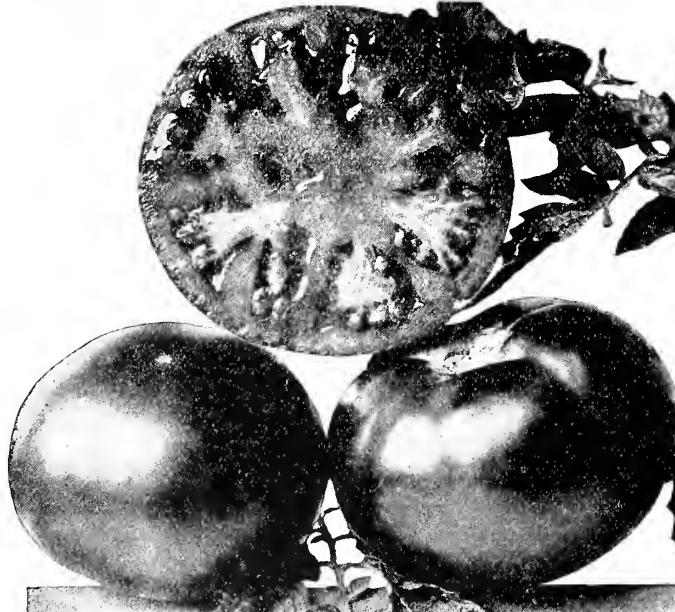
1655. Northrup, King & Co.'s Peerless.

(Sold only in sealed packages.) This magnificent Tomato possesses every point going to make the perfect Tomato, except earliness. It is of very large size, velvety smoothness, bright attractive color, symmetrical form, great prolificness, remarkable firmness, wonderful solidity and splendid flavor. As a keeper it is probably the best of all, rendering it invaluable as a shipper. The seed cells are small and the center is without the hard core which is an objectionable feature in so many Tomatoes that are otherwise good. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

1660. Acme. Early and bears fruit until cut off by frost. Fruit is purplish, always round, smooth and of good size, and is borne in clusters of four or five; free from cracks and stands shipment well. Flesh is solid and of excellent flavor. Does well both outdoors and under glass. This is a good canning variety. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

1665. Beauty. (Livingston's.) One of the smoothest skinned and best of the large sorts. The vines are large, vigorous and very productive. The fruit is large, uniform in size and very smooth. Skin purplish pink, flesh light pink and of excellent flavor. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

1670. Crimson Cushion. A continuous and late fruiter. Of immense size, often weighing a pound, and smooth as an apple. Ripe thoroughly all over. Nearly round and of very good quality, being free from acid taste; color, bright scarlet. Nearly seedless and as solid as beefsteak. A prodigious bearer. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.25.



Dwarf Champion Tomato.

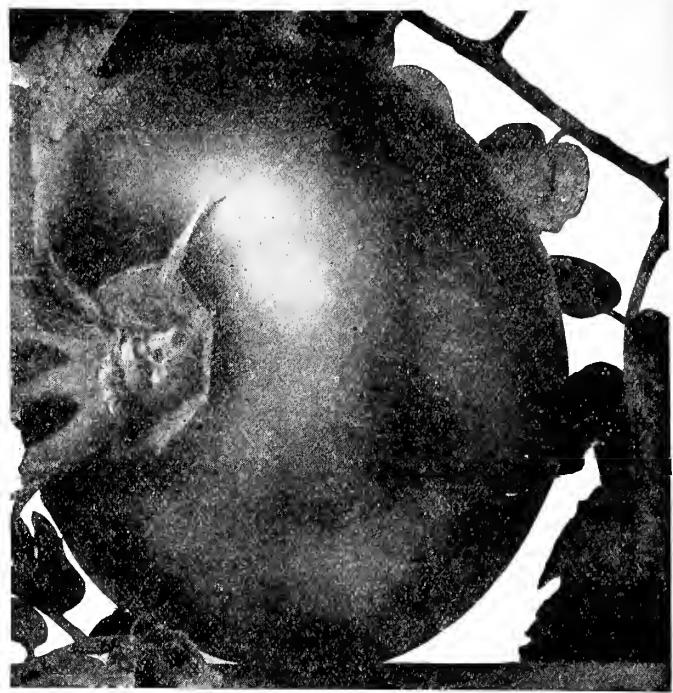
1675. Dwarf Champion. Dwarf and compact in habit; sold by some seedsmen as the Tree Tomato. Stands up well even when loaded with fruit, having a stiff, bushy stem; can be planted close together; very desirable in small gardens; early. It is always smooth and attractive; the skin is tough and flesh solid, but has no hard core and is of good flavor. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

1678. Earlibell. A very early and prolific bearer. The fruits are borne in clusters, are smooth, uniform in shape and have the peculiar habit of ripening an entire cluster at one time. In color, they are a deep, glossy scarlet. In quality and flavor they are excellent. For the market gardener as well as the home garden, this sort will be found very desirable. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

1685. Favorite. (Livingston's.) Large, smooth, blood-red sort; will bear shipping long distances. Very few seeds and has no hard, green core. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.25.

1690. Fordhook Early. One of the earliest; fruit shapely. Fruit rich crimson in color but tinted with purple like the well known and favorite Acme. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

1695. Livingston's Coreless. The most perfect-shaped canning variety. In shape it is almost round. The depression at the stem end has been almost eliminated, making it a most profitable variety for canning, owing to the small amount of waste. It is immensely productive, producing clusters of from four to seven fruits, all of marketable size; always free from green core; ripens all over and through and right up under the stem all at once. A grand slicing variety on account of the bright red, solid, meaty and delicious flesh. One of the best for long distance shipping. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., 95c; lb., \$3.25.



Northrup, King & Co.'s Sterling Tomato.

1692. Golden Queen. A very handsome yellow Tomato of large size, solid and smooth; very productive. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

1700. Livingston's Globe. Perfectly globe-shaped, very early, large, smooth, has few seeds, firm fleshed, ripens evenly; rose-colored tinged with purple, very productive; an excellent keeper, flavor superb. A fine variety for greenhouse or for early outdoor growing. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

1705. Perfection. (Livingston's.) One of the handsomest varieties and those who have grown the large, round, smooth, beautiful, red fruit claim it is of superior quality. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

1710. Stone. This variety is very large and of a bright scarlet color; very smooth, ripening evenly to the stem without a crack, exceedingly solid; is an excellent shipper; quality the very best; fine for canning; a good keeper; without hard core; not subject to rot; its vines and foliage rank and robust. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

1712. Trucker's Favorite. A purple variety of unusual merit. Its fine smooth, uniformly shaped fruits command the highest market price. The fruits are thick meated and very solid; the meat is of the finest flavor, making them equally desirable for slicing, canning and cooking purposes. A basket of these Tomatoes is a most attractive sight and those offering them for sale will find the demand larger than the supply. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$2.50.



Ponderosa Tomato.

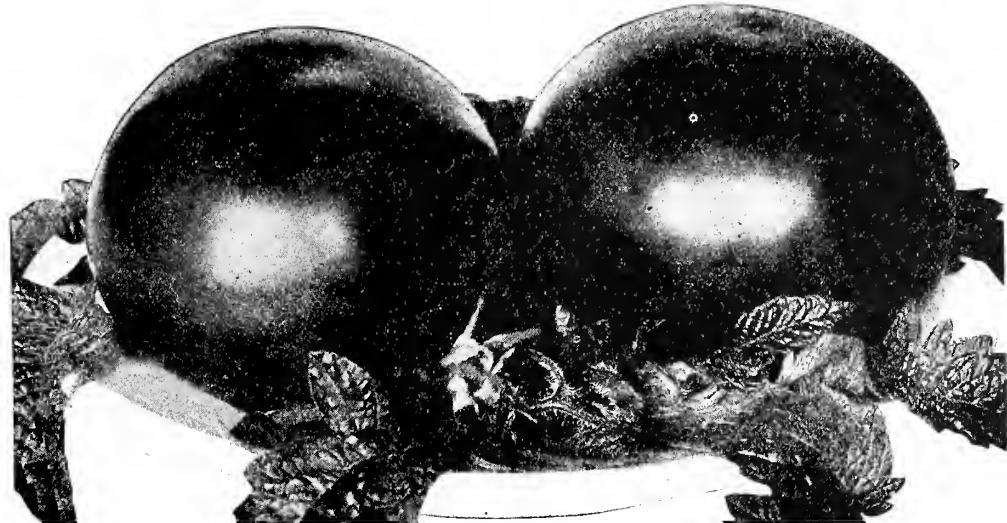
1715. Ponderosa. This is the largest fruited Tomato and is of a fine quality for slicing. The vines are of strong growth; fruits oblong in form, deep through, and generally ridged or ribbed; deep purple in color. They are solidly fleshy with small seed cells; of fine flavor. Planted in good soil, fruits frequently attain a weight of one pound or more. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

TOMATO

Northrup, King & Co.'s 1720. Early Minnesota Tomato.

The Earliest Good Tomato. Sold only in Sealed Packages.

Our stock of this splendid Tomato has come in competition in the race for earliness with numerous other varieties sent out under strong claims, and has beaten them all, and remains today, as it was when we first offered it several years ago, the earliest of all the good varieties, very hardy and succeeding everywhere. The Imperial, Early Ruby and Earliana are excellent sorts but the Early Minnesota is superior to these in shapeliness, color, size, smoothness, solidity and flavor, as well as being earlier. When we say the earliest Tomato, we of course mean the earliest good Tomato. There are several sorts a very little earlier, but they are gnarled, ridged, small, tasteless and unworthy the name of Tomato, and unfit for use. Those wishing the earliest good Tomato must have our Early Minnesota. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.



Northrup, King & Co.'s Early Minnesota Tomato.



Husk Tomato.

SMALL FRUITED TOMATOES.

1735. Husk Tomato. Makes Fine Preserves. Also called Strawberry and Ground Cherry, is greatly valued for use as a preserve, it also makes delicious pies either when ripe or dried with sugar. The fruits are half an inch in diameter and of very sweet and agreeable flavor. They are enclosed in a husk or calyx. We consider the Golden Husk better than the Purple Husk variety and unless otherwise directed will always send Golden Husk on orders received for Strawberry, Ground Cherry or Husk Tomato. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

1740. Peach. These are excellent for eating raw. The fruits resemble a peach, even to the skin which is covered with a slight bloom as in a peach or nectarine. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c.

1745. Red Cherry. Identical with the Yellow Cherry except in color of fruit, which is of a light scarlet. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c.

1750. Red Pear. Fruit pear-shaped, of bright scarlet color, rich flavor. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c.

1755. Yellow Cherry. Fruits are of a light lemon-yellow, about freely until frost. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c.

1760. Yellow Pear. Similar to the Red Pear, but a handsome yellow. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c.

1765. Yellow Plum. Fruits are yellow, plum-shaped, in clusters. Excellent. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c.

1725. Chalk's Early Jewel. The largest, smoothest and finest flavored, extra early bright red Tomato. About ten days later than Spark's Earliana. It is a heavier cropper, with Tomatoes of larger size and sweeter flavor, produced throughout the season. The Tomatoes are of good size, just right for market; very solid and deep through, almost round; color bright scarlet, ripening to the stem without cracks or green core. Flesh is thick, solid, of fine flavor, with few seeds; the skin is strong enough to make it a good shipping variety. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., 95c; lb., \$3.25.

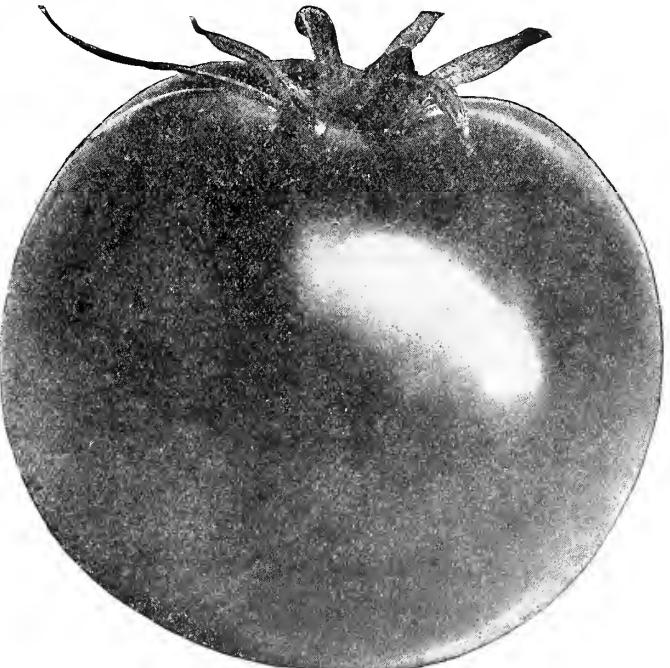
1728. June Pink. One of the earliest varieties of Tomatoes and a special favorite with those who like the pink color. The fruit is borne in clusters and begins to ripen very early. The Tomatoes average three inches in diameter and are of excellent quality. The yield is heavy and continuous until the vines are cut down by frost. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

1730. Spark's Earliana. A perfect early Tomato, large in size and very solid, a vigorous grower and prodigious bearer, yielding its splendid fruit until frost. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$3.00.

1732. Earliana Select. Seed saved from crown and selected fruit. Pkt., 25c; $\frac{1}{2}$ oz., 75c.

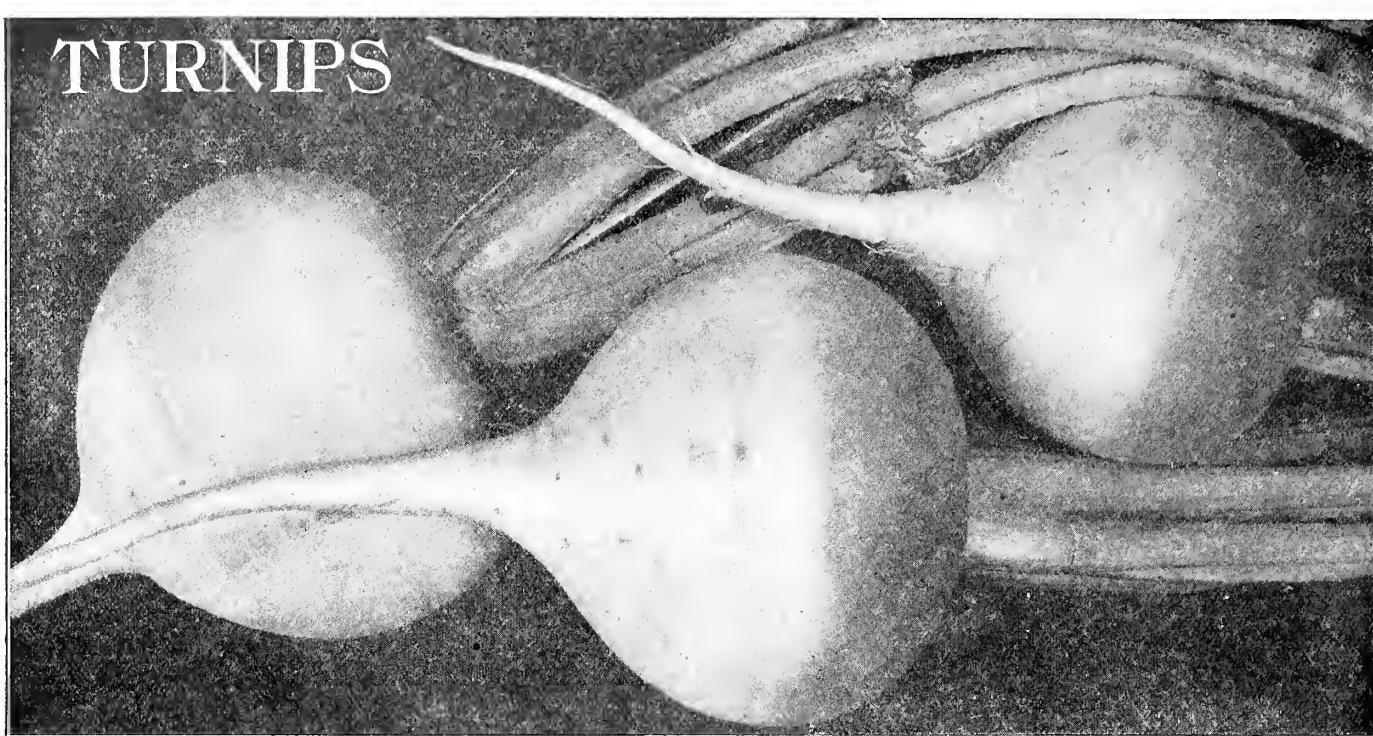
1734. Earliana Private Stock. Quantity very limited. A superior stock saved from fine breeding plots, the result of 8 years' selection. 1-16 oz., 75c; $\frac{1}{4}$ oz., \$1.25; $\frac{1}{2}$ oz., \$2.00.

1733. John Baer Tomato. Originator's Stock. This variety is the result of fifteen generations of breeding; it produces perfect, solid, high crown, brilliant red Tomatoes, splendid for shipping. They ripen ten days before Earliana, bearing 50 to 100 fruit per plant. The flavor is deliciously sweet. The plant will stand plenty of fertilizer without going to vine. Pkt., 25c; $\frac{1}{4}$ oz., 50c; oz., \$1.50; 2 ozs., \$2.50; $\frac{1}{4}$ lb., \$4.50; $\frac{1}{2}$ lb., \$8.00; lb., \$15.00.



John Baer Tomato.

TURNIPS



White Globe Turnip.

Culture. Sow seed early in Spring for summer crop and early in August for late crop; 1 oz. of seed will sow 150 ft. of row; 1 to 2 lbs. per acre.



1770. Northrup, King & Co.'s Early White Model.

(Sold only in sealed packages.) Best for private gardens and home use. Very early and the most perfectly formed, round, white Turnip. It has a short top and a single tap root. Flesh, snowy white, solid and sweet. Pkt., 5c; oz., 10c, $\frac{1}{4}$ lb., 25c; lb., 80c.

1775. Cow Horn. Pure white, except a little shade of green at the top. Carrot shaped, grows nearly half out of the ground and slightly crooked. Delicate and well flavored; a rapid grower and good for market use. Pkt., 5c; oz., 10c, $\frac{1}{4}$ lb., 25c; lb., 75c.

1780. Early White Flat Dutch. A very popular sort for table or market, grows quickly, comes early; clear white skin, flesh juicy, mild flavor and excellent quality, bulbs free from small roots. Pkt., 5c; oz., 10c, $\frac{1}{4}$ lb., 20c; lb., 60c.

1785. Extra Early Purple Top Milan. Similar to Milan, except that the roots are a little more flat, and the upper portion is a beautiful purple-red. Pkt., 5c; oz., 15c, $\frac{1}{4}$ lb., 45c; lb., \$1.50.

1790. Extra Early White Milan. The earliest Turnip. Tops very small, distinctly strap-leaved and growing very erect and compact. Bulbs form earliest of any sort. The clean white roots are smooth, flat, symmetrical and handsome in appearance. The flesh is white, tender and sweet. Pkt., 5c; oz., 15c, $\frac{1}{4}$ lb., 45c; lb., \$1.50.



Purple Top, Strap-Leaved Turnip.

Purple Top White Globe Turnips.

1795. Golden Ball or Orange Jelly. One of the most delicious and sweetest yellow-fleshed Turnips. Not of large size, but firm, hard and excellent flavor. Keeps well and is superior as a table variety. Pkt., 5c; oz., 10c, $\frac{1}{4}$ lb., 20c; lb., 60c.

1800. Purple Top, Strap-Leaved. The most popular sort. A general favorite with all, and more largely grown than any other Turnip; will do well to sow either broadcast or in drills, and will form good sized bulbs in seven or eight weeks. Rather flat and of medium size. Color, purple above ground, white below; flesh, white, fine grained and tender. Pkt., 5c; oz., 10c, $\frac{1}{4}$ lb., 20c; lb., 50c.

1805. Purple Top White Globe. Of a perfect globe shape, about six inches in diameter, with smooth, white skin; flesh pure white, firm and crisp, and of quick growth. A good keeper and is fine for market. Pkt., 5c; oz., 10c, $\frac{1}{4}$ lb., 15c; lb., 50c.

1810. White Egg. A quick grower; a grand good keeper; excellent either as an early or late variety. The flesh is very sweet, firm and mild, never having the rank, strong taste of some varieties. Pkt., 5c; oz., $\frac{1}{4}$ lb., 25c; lb., 75c.

1815. White Globe. Perfectly globe-shaped; skin white and smooth; leaves, large and dark green. Flesh is white and of good quality. Pkt., 5c; oz., 10c, $\frac{1}{4}$ lb., 20c; lb., 60c.

1816. Amber Globe Green Top. A large, round variety with solid yellow flesh. Fine for stock feeding and a good keeper. Excellent for table use, being very sweet. Pkt., 5c; oz., 10c, $\frac{1}{4}$ lb., 20c; lb., 60c.

1817. Purple Top Yellow Aberdeen. Of medium size, with yellow flesh of fine quality; matures late so should be sown early; keeps well and is a good variety for stock. Pkt., 5c; oz., 10c, $\frac{1}{4}$ lb., 20c; lb., 60c.

HERBS

Utilize the corners for a few Pot and Sweet Herbs (for flavoring meats, soups, etc.) indispensable to every garden, while Medicinal Herbs will be found useful. Thrive nicely along sunny side of fence in a deep, rich soil.

Culture. These thrive best in a rich, mellow soil. Sow the seed early in Spring in shallow drills, one ft. apart; when up two or three inches thin out or transplant. Cut on a dry day before coming into full blossom, tie in bunches and hang up where they can dry quickly.

1818. Anise. Used for cordials, garnishing and flavoring. Pkt., 5c; oz., 20c.

1820. Balm. Leaves used for making pleasant beverages. Pkt., 5c; oz., 25c.

1825. Basil, Sweet. Leaves are used in soups, etc. Pkt., 5c; oz., 20c.

1830. Borage. Leaves used for flavoring, and flowers furnish bee pasture. Most easily grown in any waste place. Pkt., 5c; oz., 15c.

1835. Caraway. Grown for seeds, used for flavoring. Pkt., 5c; oz., 10c.

1840. Catnip or Catmint. Leaves and young shoots used for seasoning. Pkt., 10c; oz., 40c.

1845. Coriander. Seeds used in the manufacture of liquors, in confectionery and culinary preparations. Pkt., 5c; oz., 15c.

1850. Dill. Seeds have an aromatic odor and pungent taste. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

1855. Fennel, Sweet. Ornamental; also, used in sauce. Pkt., 5c; oz., 15c.

1860. Horehound. Used for seasoning and cough remedy. Pkt., 5c; oz., 30c.

1865. Lavender. An aromatic and useful medical herb. Pkt., 10c; oz., 50c.

1870. Marjoram, Sweet. Leaves used for seasoning. Pkt., 5c; oz., 25c.

1875. Pennyroyal. Agreeable odor and flavor. Pkt., 10c; oz., 75c.

1880. Rosemary. The leaves of this plant are aromatic. Pkt., 5c; oz., 30c.

1885. Sage. An indispensable herb for seasoning. Pkt., 5c; oz., 20c.

1890. Summer Savory. Used for flavoring soups. Pkt., 5c; oz., 25c.

1895. Thyme. Leaves and young shoots used for seasoning; a tea is made of the leaves; a remedy for headache. Pkt., 10c; oz., 35c.



RUTA BAGA

Swedish Turnip.

This is one of the best and most valuable of root crops. Ruta Bagas do best on new land or light, sandy soil and are for this reason largely grown on breaking, where, without cultivation they produce bountiful crops of excellent quality. They, however, respond freely to care and to obtain the most satisfactory results, the land should be thoroughly prepared, well fertilized and made fine and mellow. A continued spring fallow will be beneficial in destroying weeds in the soil and in forming a fine, firm seed bed, which is desirable for all root crops.

Ruta Bagas are grown for two purposes, for table use and for stock feed. There is a large demand for Ruta Bagas of good quality for household use and many carloads are sold on the large city markets. The supply is frequently insufficient to meet the demand.

The value of Ruta Bagas as a stock feed is not fully appreciated in this country. In Europe and in eastern Canada, very large quantities of Ruta Bagas are produced on practically every farm. They may be very easily grown and more cheaply than potatoes, and usually are worth as much per bushel on the market as potatoes. As an illustration of this point we recall an instance which was brought to our attention a few years ago. Mr. Thos. Harborn, then living at St. Cloud, Minn., a well known short-horn breeder, planted 4 1/2 acres of our Prize Winner and Monarch Ruta Bagas. He raised 2300 bushels. The land was prepared, the seed sown, the field cultivated and the roots harvested, topped and tailed at a cost of 42 days' labor of one man, or less than 4c per bushel. This demonstrates two important points, first the cheapness with which Ruta Bagas may be produced, and second, the importance of using high grade seed, that is to say, seed with a history of big yields behind it.

Our seed is grown for us in England by specialists, whose life work has been the breeding and production of the highest type of Ruta Baga. The aim has been to produce a root with a small top of uniform size and shape, and with a single tap root, a root of high feeding quality, fine flavor and great productiveness.

With Ruta Baga seed which we sell it is possible to raise 15 to 20 tons of roots per acre. With ordinary seed the yield may be one-half to one-third that amount. The difference in cost per acre between using our high grade seed and the cheaper qualities obtainable on the market is so insignificant, that no wise grower can afford to consider sowing anything but the best.

When Ruta Bagas are intended for a cultivated crop, the seed should be sown in drills 15 to 24 inches apart; cover seed 1/2 inch and thin out to 6 to 8 inches in rows. The yield will be greatly increased by frequent cultivation. The time of sowing will depend somewhat on locality and the purpose for which the crop is to be used. If for market, sow the seed the latter part of June. If for stock feeding, seed may be sown as late as July 15th and it will, under favorable conditions, mature a crop before the ground freezes. Seed may be sown broadcast if desired. Use one ounce to 250 feet of drill, 1 1/2 pounds to the acre in drills or 2 1/2 pounds broadcast.

Order Early. It will be a great convenience both to our customers and to ourselves if orders are sent us early. We aim to fill orders the same day received, but during the rush season find this not always possible—thus the advantage in ordering early.

How to Send Money.

Money can be sent safely either by P. O. order, bank draft, express draft, express order or registered letter. If your order amounts to \$1.00 or more it is best to send by one of the above methods. Postage stamps taken in amounts less than \$1.00. Never send coin in the mail unless in registered letter.

VEGETABLE PLANTS AND ROOTS.

Turn to page 90 where a full line of Cabbage, Celery, Tomato and other plants are listed and priced. Horse Radish and Mint Roots also are listed on the same page. Asparagus Roots are on page 11; Rhubarb Roots, on page 54; Onion Sets, on page 42; Garlic, on page 32.



Hurst's Monarch Ruta Baga.

A Minnesota Field of Northrup, King & Co.'s Prize Winner Ruta Baga and a Single Specimen.

1900. Northrup, King & Co.'s Prize Winner.

Sold only in Sealed Packages.

Short neck, small top, firm flesh, symmetrical shape, united with high feeding value, great productiveness, hardness and long keeping qualities, describes the perfect Ruta Baga. Every root of Northrup, King & Co.'s Prize Winner more nearly approaches this ideal than any other strain of Ruta Baga.



Northrup, King & Co.'s Prize Winner Ruta Baga is a purple top, yellow fleshed variety. The roots reach a good size and are exceedingly uniform in appearance. The Prize Winner is an all around Ruta Baga, suited to every purpose and every soil. We do not hesitate to say that in the Prize Winner we possess the handsomest and most productive stock of purple top Ruta Baga known. Valuable not only for stock feeding but for table use as well. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c. By freight or express at purchaser's expense, 5 lbs., \$3.15; 10 lbs., \$6.00.

Culture. Ruta Bagas do best on new land, or light, sandy soil. Sow the seed from the latter part of June until August in drills 15 to 24 inches apart. Cover seed 1/2 inch and thin out to 6 to 8 inches in the rows. Cultivate frequently. Can be sown broadcast. Use 1 ounce to 250 feet of drill, 1 1/2 pounds to the acre in drills or 2 1/2 pounds broadcast.

1905. American Purple Top. This strain is of American origin and is a purple top, yellow variety. It has been selected to produce a smaller top and a shorter neck than is usually found; the roots grow to a large size and are of the finest quality and excellent both for the table and for stock feeding. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 65c. By express or freight at purchaser's expense, 10 lbs. @ 50c per lb.

1910. Carter's Hardy Swede. An excellent sort either for table use or stock feeding. Flesh, yellow, solid, firm, sweet and rich. It is a hardy variety and yields heavily. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 65c. By express or freight, 10 lbs. @ 50c per lb.

1915. Hurst's Monarch. Distinct in type, being of tankard shape. On account of the size it attains, it will yield from two to seven tons more to the acre than any other variety. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 85c. By express or freight, 10 lbs. @ 70c per lb.

1920. Sweet German. One of the very best sorts on account of its productiveness and quality. This consideration should count strongly with stock growers, all of whom understand that the quality of the feed regulates the quality of the product. Both flesh and skin are white. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 65c. By express or freight, 10 lbs. @ 50c per lb.

1923. Sweet Russian. Excellent keeper. Desirable for table and stock. Roots, large, globe-shaped, small neck, color white. Flesh, white, firm and sweet. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 65c. By express or freight, 10 lbs. @ 50c per lb.

Beautiful American Asters

Cultural Note on Asters.

The cultivation of the Aster is simple. Do not sow the seed too early; the middle of March indoors is considered a very good time. Successive sowings should be made, if a constant supply of flowers is desired from July until frost. For early use sow the seed in shallow boxes, covering with one-fourth inch of soil. Later sowings may be made in hotbeds or cold frames; or in the open ground, broadcast or in drills, when all danger of frost is past. Never use the same ground or location twice in succession. The soil should be rich and moist. We recommend pulverized sheep manure, wood ashes and phosphates as fertilizers. If barnyard manure is used it should be thoroughly decomposed. Allow plants plenty of room; rows should be 3 feet apart and 15 inches between the plants in the row, but the distance may be less according to the habit or growth of the variety.

The aster beetle or fly is one of the worst pests but there seems to be only one crop of them, and these if caught and killed are not usually followed by others. Dusting the plants with air slackened lime or dry ashes will be found beneficial. Root lice and cut worms are also troublesome. Applications of kerosene emulsion or tobacco water around the roots are effective. Aster blight or "yellows" can usually be traced to the work of the above pests.

The plants should be pulled and burned if they should become badly diseased. Growers should remember that prevention is better than cure. Good cultivation and the timely use of the remedies suggested should produce healthy, vigorous plants.

2031. Lavender Gem Aster.

One of the most beautiful Asters; color a charming shade of lavender, deepening with age. The flowers are always full double, borne in profusion on long, slender, wiry stems. Of the Ostrich Feather type, large, artistic and loosely arranged. Pkt., 15c.

Queen of the Market.

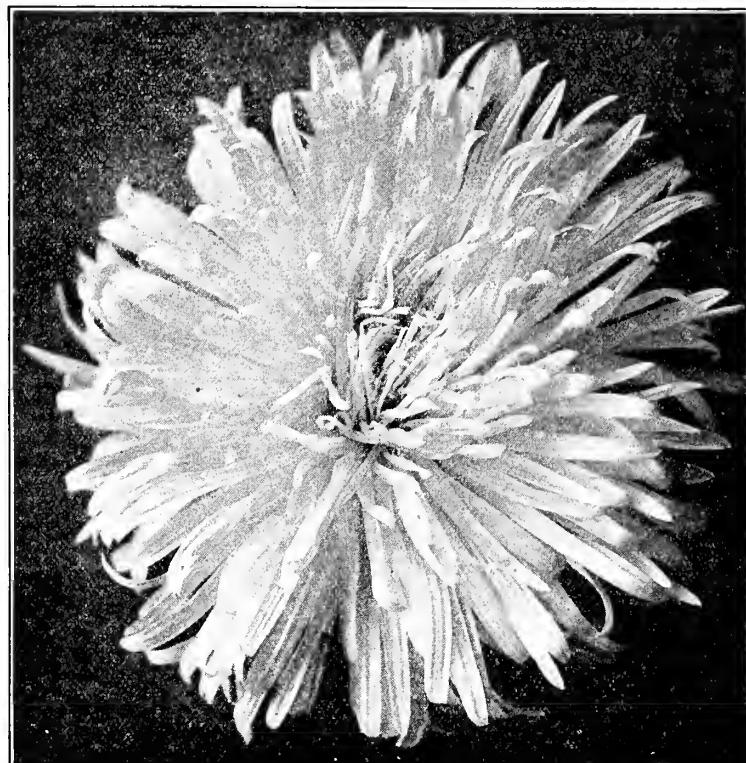
The earliest first-class Asters, coming into flower almost a month in advance of later sorts. The plants are of open habit, about 15 inches high, bearing on stems 10 to 15 inches long the finely formed double flowers. This is the standard variety among florists for early cutting.

2007. Crimson pkt., 10c 2010. Lavender pkt., 10c
2008. Flesh Pink pkt., 10c 2011. Purple pkt., 10c
2009. Rose Pink pkt., 10c 2012. White pkt., 10c
2013. Finest Mixed Colors pkt., 10c
2014. Collection of 1 pkt. each of the above 6 colors 50c

Rochester Giant Comet Asters.

This is a new class of Asters of which the plants are like those of the Late Branching, large and strong. The flowers like all the Comet type have petals that are very long, narrow and gracefully recurved, giving them a lightness and grace that makes them the most artistic of all Asters. The immense size of the flowers—they are the largest Asters now in cultivation—their artistic beauty, delicacy of coloring and freedom of bloom make them superior to almost all others. They bloom in mid-season.

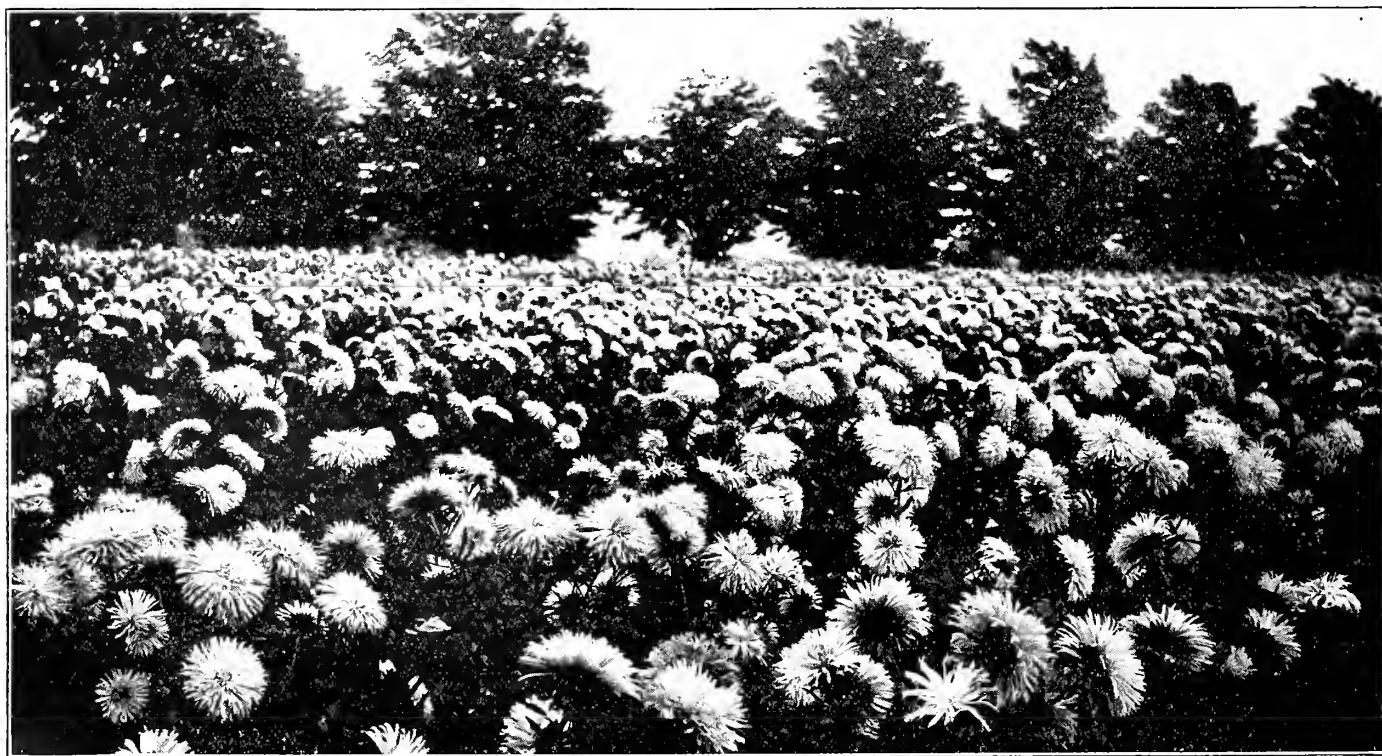
2015. Lavender pkt., 15c 2018. Rose Pink pkt., 15c
2016. Purple pkt., 15c 2019. White pkt., 15c
2017. Light Pink pkt., 15c 2020. Finest Mixed Colors. pkt., 15c
2021. Collection of 1 pkt. each of the above 5 colors 60c



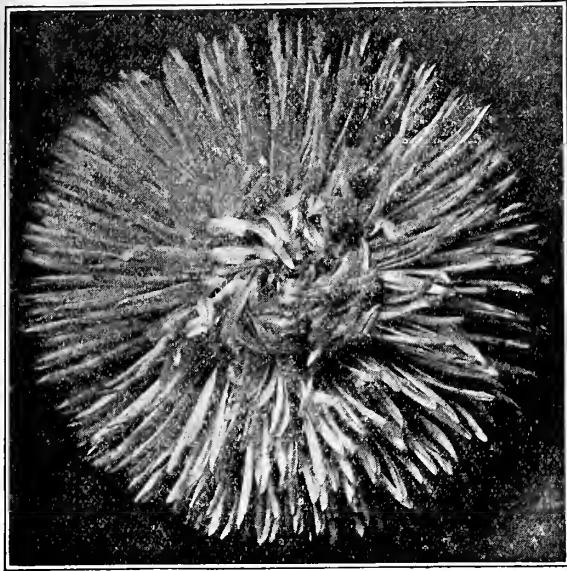
Crego Giant Comet Asters.

This Aster resembles the Chrysanthemum very much in form. It is usually large, being 3 to 5 inches in diameter when well grown. The petals are very large, twisted and curled so as to give the blossoms a beautiful, fluffy appearance. They keep in good condition extra well when cut. The plants, of luxuriant, branching growth, attain a height of 18 inches to 2 feet, each plant bearing from 20 to 30 magnificent flowers on very long stems. We offer these in 6 shades, each distinct and deserving cultivation.

2023. Azure Blue pkt., 15c 2027. Shell Pink pkt., 15c
2024. Lavender pkt., 15c 2028. White pkt., 15c
2025. Purple pkt., 15c 2029. Finest Mixed Colors. pkt., 15c
2026. Rose Pink pkt., 15c 2030. Collection of 1 pkt. each of the above 6 colors 75c



Magnificent Field of the New Crego Giant Comet Asters Grown for Seed Purposes.



King Aster.

A magnificent class of Asters, distinct from others in the character of the flower. The long petals are folded lengthwise, appearing almost as if quilled. The flowers are of great size, full and large, of good substance and last very long when cut. The plants are large and the stems exceptionally long and strong.

2049. Crimson King. Very rich, deep crimson. A most striking and attractive variety for those who prefer this color. Pkt., 15c.

2032. Pink King. This is a beautiful and delicate lavender pink shade; it has the characteristic narrow petal of the class but the petals are not so closely folded as some of the others. This gives the flower a graceful, soft appearance. The plants are upright in growth. Pkt., 15c.

2033. Rose King. A very attractive Aster with large, hand-some double-quilled flowers of a brilliant rose color. A great favorite among florists, lasting in perfect condition a long time. It is vigorous in habit, with stems frequently two feet long. Pkt., 15c.

2034. Violet King. The petals are twisted, curled and incurved in the center, completely covering the crown. The bloom is full and large; plants strong and free-branching. Season, mid-summer to frost; the color is a soft violet-lilac. Pkt., 15c.

2035. White King. This has the same handsome type of flower and upright growth of plant as the Violet King and makes a very pleasing contrast with that variety. The cut flowers have the splendid lasting quality characteristic of the King class. In season White King blossoms with the Late Branching and has all the vigor of that famous race. The plants are more upright in growth than the Violet King and Rose King. Pkt., 15c.

2036. Finest Mixed King Asters. Pkt., 15c.

2037. Collection. This includes one packet each of the above 5 colors; the 5 pkts., 60c.

Simple's Improved Late Branching.

A grand, popular strain having all the characteristics of a good Aster.

The plants form strong, branching bushes 2 to 3 feet high, bearing on long, strong stems their handsome Chrysanthemum-like flowers averaging about 5 inches across. The form of the flowers and length of stem puts them in the front rank for cutting. They bloom late in the season.

2038. Azure Blue... pkt., 10c **2043. Mary Semple,**
2039. Crimson... pkt., 10c **Shell Pink.....** pkt., 10c
2040. Dark Violet... pkt., 10c **2044. Lavender...** pkt., 10c
2041. Rose Pink... pkt., 10c **2045. Purple.....** pkt., 10c
2042. Deep Rose... pkt., 10c **2046. White.....** pkt., 10c
2047. Finest Semple Mixed Colors..... pkt., 10c
2048. Collection of one pkt. each of the above 9 colors..... 75c

The New Asterum.

A strain of Comet Asters which on account of their immense size and Chrysanthemum-like apearance have been appropriately named Asterums. They attracted great attention when they were first exhibited three years ago and have become increasingly popular ever since.

The plants grow about three feet high with strong stems and usually bloom a trifle earlier than the Crego Giant Comets. Few of the flowers are less than five inches in diameter.

2050. Dark Lavender..... pkt., 15c
2051. New Shell Pink..... pkt., 15c
2052. Rose Pink..... pkt., 15c
2053. White..... pkt., 15c
2054. Finest Asterum Mixed Colors..... pkt., 15c
2055. Collection of 1 pkt. each of the above 4 colors..... 50c
 For Aster Plants see page 90.

BEAUTIFUL AMERICAN ASTERS

The Daybreak Aster.

These very desirable medium early Asters produce plants stiffly erect in habit of growth, which attain a height of 18 to 20 inches. The flowers form a ball about 2½ inches in diameter with regularly incurved petals, borne on long, stout stems.

2060. Blue.....	pkt., 25c	2065. Finest Daybreak Mixed Colors.....	pkt., 25c
2061. Lavender.....	pkt., 25c	2066. Collection of 1 pkt. each of the above 5 colors..	\$1.00
2062. Light Shell Pink.....	pkt., 25c		
2063. Rose Pink.....	pkt., 25c		
2064. Shell Pink.....	pkt., 25c		

2070. Northrup, King & Co.'s Fire Ball.

The nearest approach to a pure, brilliant scarlet of any Aster yet introduced. The plants are literally covered with perfectly formed flowers of faultless Peony shape. Height, 10 to 12 inches. Pkt., 15c.

2072. New Red Aster "Sensation."

This is the reddest of all Red Asters, the color being a rich garnet or ox blood red which glistens in the sunshine like a live coal. The plants are of free-branching habit, about 18 inches high; the very double flowers, averaging 3½ inches across, are borne freely on stems a foot long from early Aug. till late Sept. The intense color shows up well when cut, and makes a brilliant bit of color in a bed or border. Pkt., 15c.

2073. New Enchantress Pink Aster.

Immense flowers of a soft delicate pink, which does not fade; borne in strong, upright plants. The plants are tall and strong and the flowers are the size of the largest Branching Asters. The flower is made up of broad petals, loosely arranged, producing an exceedingly soft and pleasing effect. Pkt., 25c.

2074. Giant Purity.

Large, double flowers of purest snowy whiteness; mid-season. Pkt., 25c.

2075. Pink Beauty.

This has been pronounced by experts to be the finest pink mid-season Aster. The bushy plants grow 24 to 30 inches high, and bear as many as 50 large chrysanthemum-like flowers of a delicate blush-pink. Pkt., 15c.

2076. Crimson Giant.

A superb, late branching Aster of upright growth. Flowers extra large, five inches or more across. Stems about 18 inches long, color rich blood crimson. Pkt., 15c.

2078. Peerless Pink.

One of the finest, late branching Asters. Flowers are robust grower and free-flowering. Pkt., 15c.

Peony Flowered Perfection Aster.

Has double, large and beautiful flowers with incurved petals, resembling very much a Peony in shape. The plants are strong and upright, bearing handsome blooms on long, stiff stems. Extra fine for bouquet work. Height, 20 inches.

2080. Blue.....	pkt., 15c	2082. Crimson.....	pkt., 15c
2081. Snow White.....	pkt., 15c	2083. Mixed Colors.....	pkt., 15c

New Royal Asters.

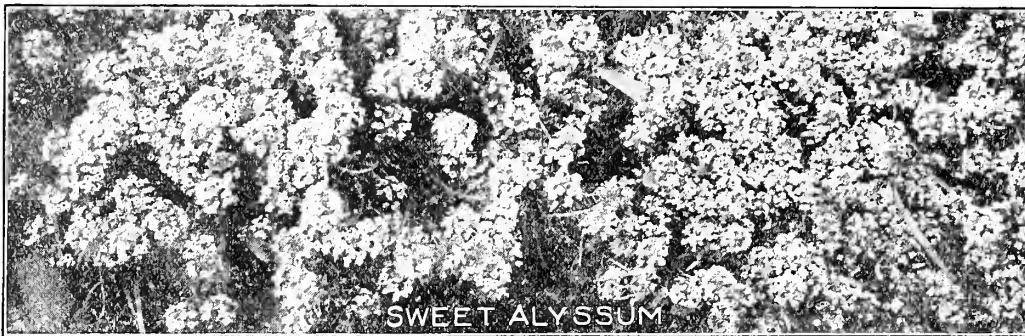
These form a new class of Asters in which the petals are very broad and distinctly incurved or shell-shaped. This produces an effect of shading that enhances the beauty of the color. Charmingly graceful, producing a Chrysanthemum-like effect.

In size the flowers are like the Late Branching Asters and the plants have the same sturdy vigor but are not so tall, branching close to the ground. They are earlier than the Branching Type and remain in bloom a long time.

2085. Lavender.....	pkt., 15c	2088. Shell Pink.....	pkt., 15c
2086. Purple.....	pkt., 15c	2089. White.....	pkt., 15c
2087. Rose Pink.....	pkt., 15c	2090. Finest Mixed New Royal	pkt., 15c
			60c
2091. Collection of 1 pkt. each of the above 5 colors.....			



The New Asterum



SWEET ALYSSUM

2105. Abutilon. *Flowering Maple.* These grow rapidly and make fine, large shrubs, bearing elegant bell-shaped flowers in great profusion. Pkt., 10c.

2107. Adlumia. *Allegheny Vine.* A graceful, hardy biennial climber, but as it resows itself year after year, may be considered a perennial. The feathery foliage closely resembles that of the Maiden Hair Fern, the flowers are tube-shaped, flesh-colored and completely cover the plant. Very desirable to cover trellises, stumps of trees, etc. Pkt., 10c.

2108. Adonis. Showy annuals of easy culture, with pretty, fine cut foliage, dark crimson flowers with light center. 1 foot. Pkt., 5c.

Ageratum. One of the best bedding and border plants, blooming from early Summer until frost. Flowers do not fade in the rain.

2110. *Blue.* Pkt., 5c. 2112. *White.* Pkt., 5c.

2113. *Pink.* Pkt., 5c. 2114. *Dwarf Mixed.* Pkt., 5c.

Alyssum. Sweet. A very pretty plant for beds, vases, baskets, edgings or rock work. Sweet scented and blooms profusely all summer.

2115. *White.* Oz., 35c; pkt., 5c.

2116. *Little Gem.* Very dwarf—4 inches—and spreading. They quickly become one mass of white, fragrant flowers, remaining in full bloom from Spring to Fall. Oz., 75c; 1/4 oz., 25c; pkt., 10c.

2117. *Saxatile.* Has handsome masses of bright yellow flowers. This variety is a hardy perennial, but blooms the first season. Grows 12 inches high. Pkt., 10c.

Amaranthus. Brilliant foliaged annuals, growing from 3 to 5 ft. high. Very useful in borders of tall plants or for the centers of large beds. Give plants plenty of room.

2118. *Caudatus.* *LOVE LIES BLEEDING.* Brilliant blood red or drooping habit, 3 ft. Pkt., 5c.

2120. *Tricolor.* *JOSEPH'S COAT.* Leaves red, yellow and green. Pkt., 5c.

2121. *Salicifolius.* *FOUNTAIN PLANT.* Willow leaved. Height 3 ft. A most effective plant. Foliage bronzy-crimson. Pkt., 10c.

2122. *Sunrise.* A most beautiful plant; height, two feet; the leaves are long and narrow, the upper ones of the brightest glowing crimson. Pkt., 10c.

2123. **Ambrosia.** A hardy annual with long spiral stems, bearing an abundance of small, round, greenish-yellow buds and blossoms, which are exceedingly fragrant. It is as desirable as the Rose Geranium as a plant with fragrant foliage and for making up into bouquets and other floral work. Its long, beautiful, fringy spirals of lovely green are unsurpassed. It is one of the easiest plants to grow and seeds may be sown early in open ground. Pkt., 5c.

2125. Anchusa. *Cape Forget-Me-Not.*

A rare annual of great beauty. Grows two feet high. It will thrive in a shady, out-of-the-way place where scarcely anything else will grow. It resembles a large beautiful Forget-Me-Not of deep blue color. Blooms all Summer. Pkt., 5c.

Antirrhinum or Snapdragon.

Snapdragons were a feature of the old-fashioned garden. Then for a time they were neglected, but suddenly when the improved new sorts appeared, they became one of the most fashionable bouquet flowers. Today they are being raised in gardens everywhere since the splendid flower spikes appearing all Summer, are as valuable for bedding effects as for cutting and form a pleasing contrast to some of the stiffer, coarse annuals.

Culture. Should be sown in open ground the latter part of May. It is best to start seeds indoors in a shallow box or in a hot-bed, in a temperature of about 65 degrees. Cover seeds to a depth of four times their size and press surface firm with a board. Water with a fine spray. Transplant seedlings after second leaves form and remove to garden when weather is warm and settled. All Giant varieties, per pkt., 10c.

2127. *Giant White* 2130. *Giant Yellow*

2128. *Giant Scarlet* 2131. *Giant Pink*

2129. *Giant Garnet* 2132. *Giant Striped*

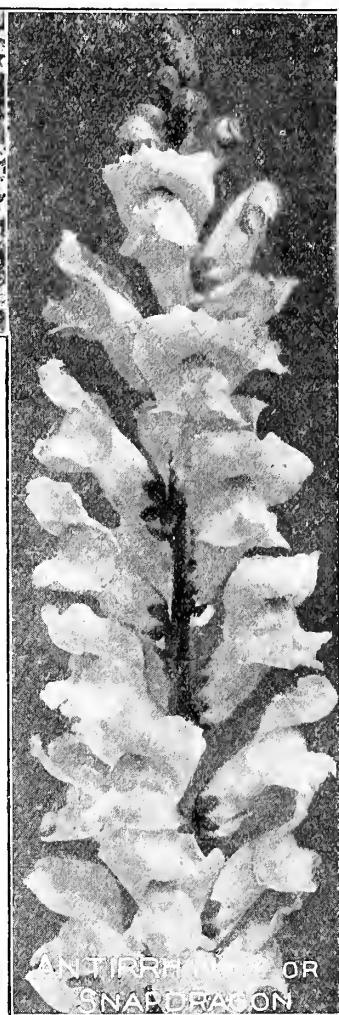
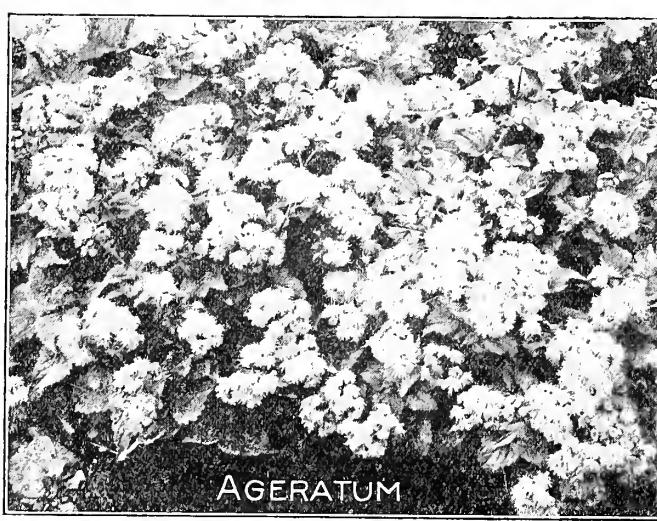
2134. *Queen of the North.* Grows 1 foot high and densely covered with large white flowers. A gem for beds and borders, valuable for pot culture. Pkt., 5c.

2135. *Tom Thumb Mixed.* Large variety of colors; best for bedding. Pkt., 5c.

2136. *Tall Mixed.* Extra fine selection, best for cutting. 1/4 oz., 25c; pkt., 5c.

2140. Arctotis. *Blue Eyed African Daisy.* A remarkably handsome new annual. It forms a branching bush 2 to 3 feet high. Its flowers are large and showy, being pure white on the upper surface, the reverse of petals being a pale lilac blue. It is of easiest culture and flowers from early Summer until late Fall. Pkt., 10c.

Culture for Arctotis. Sow in the open ground when danger from frost is past. Cover the seeds to a depth of four times their size and press surface firmly with a board. Water with fine spray.

ANTIRRHINUM OR
SNAPDRAGON

AGERATUM



ARCTOTIS

2142. **Artemisia saccorum.** *Summer Fir.* Ornamental foliage plant from China. Makes a handsome pot plant and may also be grown successfully in groups or borders. Pkt., 15c.

2145. **Asparagus plumosus.** Probably the most popular house plant today. You can grow it for yourselves and neighbors. The leaves are bright green, gracefully arched, surpassing Maiden Hair Ferns in grace, delicacy of texture and richness of color. Pkt., (7 seeds) 10c; 25 seeds, 25c.

2150. **Balloon Vine.** Annual climber of rapid growth; foliage very pretty; flowers white; seed vessels look like miniature balloons. Height 8 feet; succeeds best in light soil and warm situation. Oz., 25c; pkt., 5c.

Bachelor's Button. Also known as *Centaurea*, *Corn-flower*, *Blue Bottle*, *Ragged Sailor*, etc. These are among the most attractive of all hardy annuals and one of the most popular of all old-fashioned flowers.

2152. **Blue.** This is the dark blue sort so much in demand for cutting. Oz., 30c; pkt., 5c.

2153. **White.** Oz., 30c; pkt., 5c. 2154. **Mixed.** All varieties. Oz., 25c; pkt., 5c.

2151. **Double Bachelor's Button.** All colors mixed. $\frac{1}{4}$ oz., 15c; pkt., 5c.

Balsam or Lady Slipper. Double *Camelia Flowered*. An old and favorite garden flower, producing its gorgeous masses of beautiful, brilliant colored double flowers in the greatest profusion; of easy culture, succeeds in a good rich soil. Our strain is unrivaled for great variety and size of flowers. 2 feet.

Culture. Sow out of doors, when danger from frost is over, in the bed or border where they are to flower. The soil should be well pulverized and the seed covered to a depth of about four times their size. Press down firmly with a board, and thin out so that the plants will not become crowded. For early flowering they should be sown indoors in a shallow box, or in a hot-bed, and transferred to the open ground when the weather becomes suitable.

2155. **Snow White** pkt., 5c. 2158. **Scarlet** pkt., 5c.

2156. **Pink** pkt., 5c. 2159. **Light Lemon** pkt., 5c.

2157. **Scarlet, spotted white** pkt., 5c.

2160. **Solferino, white, striped with purple scarlet** pkt., 5c.

2161. **Victoria, satin-white, spotted with scarlet** pkt., 5c.

Northrup, King & Co.'s Sterling Balsam.

2162. **Mixed.** The finest mixture possible to combine, representing the best selections from the most celebrated specialists of Europe. The flowers are very large, measuring from two to three inches in diameter, of perfect form, resembling the flower of the Camelia, and are as double, in fact, the petals are so densely produced that the yield of seed is extremely small, one single plant often producing not more than five seeds. The colors of the flowers are varied and brilliant, comprising pure white, crimson, white shaded lilac, rose, spotted, scarlet, blue, purple and many other tints. $\frac{1}{4}$ oz., 25c; pkt., 10c; 3 pkts. for 25c.

2165. **Balsam Apple and Pear.** Dense climbers, with ornamental foliage and golden-yellow fruit, which opens when ripe, showing the seed and blood-red interior. *Apple and Pear mixed*, pkt., 5c.

2166. **Bartonia aurea.** Large golden blossoms, similar in shape to the Evening Primrose. Valuable for borders. One foot in height. Pkt., 5c.

2167. **Bean, Scarlet Runner.** Very curious, rapid-growing annual climber, producing bright red flowers, from July to September. The foliage being dense, makes it splendid for porches or wherever shade is desired. Pkt., 10c; $\frac{1}{4}$ lb., 15c.

Begonias. Everblooming Bedding Varieties.

The following are varieties of *Begonia Semperflorens*, and take rank as bedding plants with *Geraniums* and *Coleus*, doing equally well in full sunlight, and surpassing both in positions partially or wholly in shade. They are of sturdy growth, growing about 1 foot high and forming dense bushes, which, from May until frost, are completely hidden with flowers. As pot plants for Winter flowering they are superb, remaining a sheet of bloom throughout the year. Easily raised from seed. See page 90 for plants.

2169. **Vernon Grandiflora.** A large flowering form of the above. The flowers are very large and bright orange-carmine in color. The foliage is a beautiful deep red. Pkt., 25c.

2172. **Semperflorens, Mixed.** This mixture contains all the best varieties, ranging in color from pure white to the deepest crimson. Pkt., 25c.

Begonia. Tuberous-Rooted. Plants of great value for Summer decoration or window gardening, blooming the first season from seed, if sown in February or March, in a temperature of 60 degrees. To secure the best of results they should be planted out as soon as the ground becomes warm. They are covered the whole Summer with bright and elegant flowers. See page 100 for bulbs.

2173. **Single, all colors, mixed.** Pkt., 25c.

2174. **Single frilled varieties, mixed colors, pkt., 25c.**

2176. **Bidens dahlioides.** One of the finest additions to the list of annuals for cut flowers. The blossoms are suggestive of the Dahlia and Coreopsis with both of which this plant is allied. The flowers which are produced on long stems are large, single, pink or white with yellow centers. The seeds should be started inside and planted out when danger of frost is over. They do best in a sunny location, but need cool, moist soil, so it is well to keep the ground well mulched. See illustration on page 64. Mixed, pkt., 15c.

2175. **Bird of Paradise. Poinciana Gillesii.** The flowers are golden-yellow in color, measuring $2\frac{1}{2}$ inches across, and are produced in very large trusses. The beautiful part of the flower is the large pistils, which are spread out in fan-like form and are of bright crimson color. The foliage is also highly decorative, reminding one of a very delicate Acacia. If the seed is started early it will bloom freely the first year. Pkt., 15c.

2177. **Brachycome. Swan River Daisy.** Free-flowering, dwarf-growing annual, covered during the greater part of the summer with a profusion of pretty blue or white flowers; suitable for edgings. Pkt., 5c.

Browallia. A favorite profuse-blooming bedding plant, covered during the Summer and Autumn, with beautiful flowers of intense blue; grows freely in any rich soil.

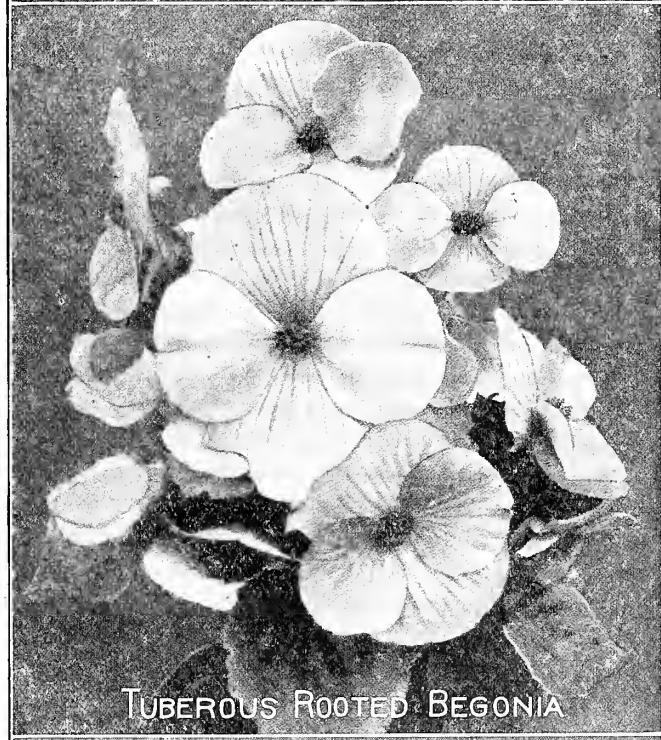
2178. **Speciosa Major.** Large-flowering Variety, brilliant ultramarine blue, a rare color. Especially valuable as a pot plant. Pkt., 15c.

2180. **Elatia Coerulea.** Large sky blue flowers with a white center. Plants 18 inches high. Pkt., 10c.

2194. **Calceolaria.** Large flowering plant. These gorgeous plants are especially suited for window decoration. The immense pocket-shaped flowers are borne in the greatest profusion. Colors are yellow, maroon, crimson, white, etc., spotted and blotched in the most unique manner. $1\frac{1}{2}$ feet. All colors mixed, pkt., 35c.



BACHELOR'S BUTTON



TUBEROUS ROOTED BEGONIA



BRACHYCOME. SWAN RIVER DAISY

STERLING BRAND

Calendula. Pot Marigold. Freely flowering plants of easiest culture, succeeding everywhere and flowering continuously. Flowers double, showy, of large size and pleasing colors. One of the best old-fashioned flowers.

2185. *Meteor.* Large, double yellow, striped with orange, very showy. Pkt., 5c.

2187. *Prince of Orange.* Resembles Meteor but is much darker, especially fine. Pkt., 5c.

2188. All colors mixed. Pkt., 5c. For other Marigolds, see page 69.

Calliopsis or Coreopsis. Showy and beautiful free-flowering annuals, blooming all summer; excellent for cutting and massing.

2184. *Crown of Gold.* Large, rich golden yellow. Height 18 inches. Fine for cutting. $\frac{1}{4}$ oz., 30c; pkt., 10c.

2186. *Crimson King.* An excellent dwarf variety; color, velvety crimson garnet. Height nine inches. $\frac{1}{4}$ oz., 15c; pkt., 5c.

2190. *Coronata.* Showy, large, pure yellow flowers; excellent for bedding. Pkt., 5c.

2191. *Drummondii, Golden Wave.* Rich golden-yellow with small chestnut-brown centre; very freely flowering. $\frac{1}{4}$ oz., 15c; pkt., 5c.

2192. *Nigra Speciosa.* Crimson. $\frac{1}{4}$ oz., 15c; pkt., 5c. 2193. *Mixed Colors.* Oz., 30c; pkt., 5c.

2195. Canary Bird Vine. *Tropaeolum Canariense.* A beautiful rapid annual climber, the charming little canary bird blossoms bearing a fancied resemblance to a bird with its wings half expanded. Oz., 40c; pkt., 5c.

Candytuft. Universally known and cultivated. When sown in April, flowers from July until frost. Very hardy and easy to cultivate. Height, 1 foot.

2197. *Giant Hyacinth Flowered.* Produces long heads of pure white flowers. Oz., 75c; pkt., 10c.

2189. *Purple.* Oz., 25c; pkt., 5c. 2200. *Tom Thumb.* White. 6 inches. Oz., 30c; pkt., 5c.

2198. *White Rocket.* Oz., 25c; pkt., 5c.

2201. *Crimson.* Oz., 25c; pkt., 5c.

2196. *Empress.* Splendid white, pyramid shape. Pkt., 10c.

2202. *Lavender.* Oz., 25c; pkt., 5c.

2203. *Mixed Colors.* Oz., 25c; pkt., 5c.

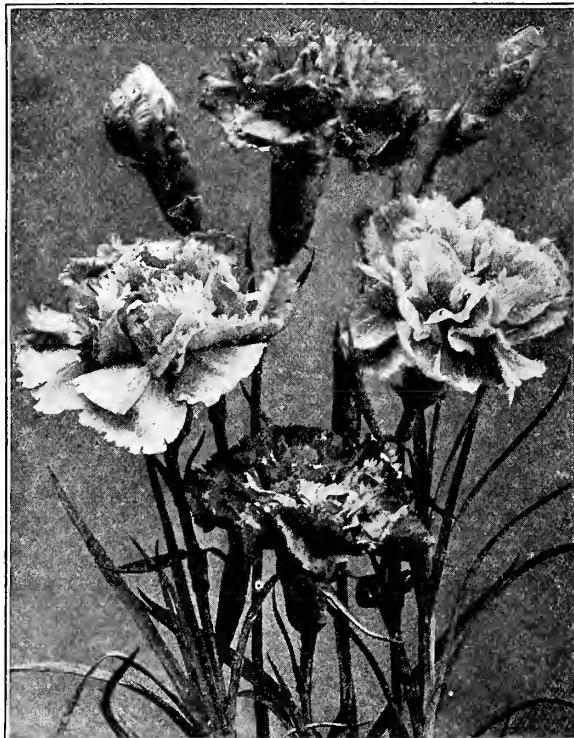
See page 81 for Perennial Candytuft or *Iberis Semperflorens*.

2204. Canna. Indian Shot.

Dwarf Large Flowering French. Unquestionably the finest of bedding plants for the American climate and easily grown from seed. Soak the seeds in warm water until they swell, then sow in sandy loam and place in a hot-bed. When up to the second leaf pot off singly and keep under glass until the proper season for planting. A mixture of many varieties. Oz., 25c; pkt., 10c.

2199. Cardinal

Climber. A graceful annual vine growing readily from seed. It is a strong and rapid climber, with beautiful fern-like, fine cut foliage, covered with a blaze of circular, cardinal-red flowers from Mid-Summer until frost. This vine is becoming very popular. It is a valuable addition to our annual climbers and entirely distinct in its beauty. In the Armory Gardens at Minneapolis it has been greatly admired by all visitors. Soak seed until it swells then start indoors and transplant out-side after all danger of frost is over. Pkt., 25c.



Marguerite Carnations.

white, variegated, etc., exquisitely sweet and fragrant, early in the year will give an abundance of flowers. Seeds sown early will bloom late in the Fall until checked by hard frosts. If protected by coarse straw litter they will live through the Winter and flower early the following Summer.

2207. *Deep Crimson.* Pkt., 10c. 2210. *Fiery Scarlet.* Pkt., 10c.

2208. *Sulphur Yellow.* Pkt., 10c. 2211. *Striped.* Pkt., 10c.

2209. *Bright Rose.* Pkt., 10c. 2212. *Pure White.* Pkt., 10c.

2213. Collection of one packet each of the above colors, 50c.

2214. Mixture of all colors Marguerite Carnations. Pkt., 10c; $\frac{1}{4}$ oz., 20c; $\frac{1}{4}$ oz., 35c; $\frac{1}{2}$ oz., 60c.

Marguerite Carnations in separate colors. $\frac{1}{4}$ oz., 25c; $\frac{1}{4}$ oz., 40c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

Giant Marguerite Carnations. An improved strain producing flowers of immense size, frequently measuring $2\frac{1}{2}$ to 3 inches across. Strong, vigorous growers and wonderfully free-flowering.

2215. *Mixed Colors.* $\frac{1}{2}$ oz., 75c; pkt., 10c.

2217. *Centrosema. Butterfly Pea.* A hardy vine of rare beauty, flowering in July from seed sown in April. Flowers range in color from rosy-violet to a reddish-purple, with a broad feathery white marking through the center; inverted pea-shaped; borne in great profusion. Pkt., 10c.

Celosia Cristata. Cockscomb. Freely blooming annuals; grow best in light soil not too rich. They make splendid border plants.

2218. *Empress.* (Colossal size). Some measure 4 feet from tip to tip, color rich crimson. Pkt., 10c.

2219. *Queen of the Dwarfs.* This is the best of the dwarf growing Cockscombs. The plants grow only 8 inches high with beautiful dark rose-colored combs, often 2 feet across. Pkt., 10c.

2220. *Variegata.* Variegated with crimson, orange, green, striped, etc. Three feet. Pkt., 5c.

Celosia Plumosa. Feathered Cockscomb. These make fine plants for large beds or groups.

2221. *Thompson's Superb.* Of pyramidal growth, attaining a height of a little more than two feet and producing graceful, feathered plumes of the most brilliant crimson. In the sunlight the rich color of the flower spikes is beautifully contrasted with the bronze-colored foliage. Pkt., 10c.

2222. *Golden Plume.* Bright golden-yellow plumes. Pkt., 10c.

2223. *Plumosa, mixed. Feathered.* All colors. Pkt., 5c.

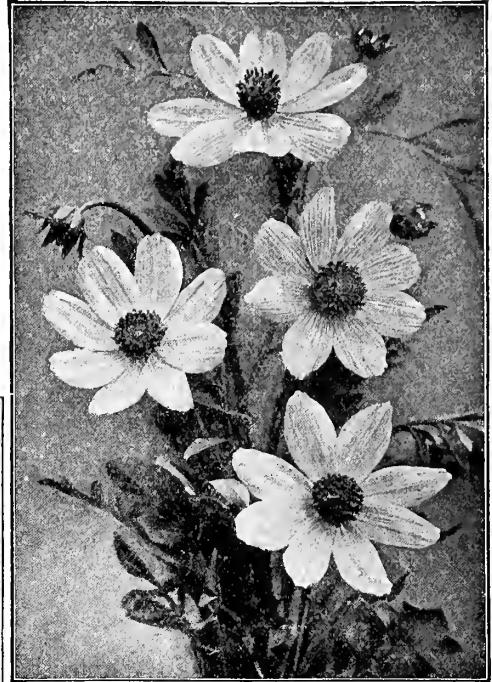
Centaurea Imperialis. Sweet Sultan. This is without doubt the most beautiful of all the Centaureas. The beautiful sweet scented, artistic shaped flowers are borne on long, strong stems and when cut will stand for days in good condition. The plant itself is much stronger than any other Sweet Sultan. It is of very easy culture. One of the best annuals for cut flowers.

2225. *Alba.* Pure white. Large pkt., 10c. 2227. *Armida.* Pale lilac. Large pkt., 10c.

2228. *Favorite.* Rosy lilac. " 10c. 2229. *Graziosa.* Purple. " 10c.

2230. *Splendens.* Purplish lilac. " 10c. Collection of one pkt., each of above five var's, 40c.

2231. *All Colors Mixed.* Large pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 75c.



Bidens Dahliae. Page 63.

Carnations.

Carnations are general favorites because of their rich colors, spicy fragrance and profusion of flowers. All the following varieties do well from seed, but the Marguerite and Chabaud types are the best for summer flowering.

Everblooming Chabaud Carnations.

A new strain raised by M. Chabaud, the Carnation specialist of France. The plants are of even height as if trimmed, the stalks very stiff, the flower large, double and deliciously sweet. It has the largest and most charming color variation. These usually bloom in five months from time of sowing.

2205. *Fine Mixed.* 3 pkts., 25c; pkt., 10c.

Carnation Grenadin. The best scarlet Carnation for out-door blooming. Comes into bloom very early. The beautiful, double, scarlet flowers are borne in great profusion and are very valuable for bouquets and cut flower use.

2206. *Brilliant Double Scarlet.* Pkt., 10c.

Marguerite Carnations. This new class of Carnations blooms in about five months after sowing. The flowers are of brilliant colors, ranging through many beautiful shades of red, pink, purple and white, fully eighty per cent perfectly double. Seeds sown in May and kept pinched back, they will live through the Winter and flower early the following Summer.

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2208. *Sulphur Yellow.* Pkt., 10c. 2211. *Striped.* Pkt., 10c.

2209. *Bright Rose.* Pkt., 10c. 2212. *Pure White.* Pkt., 10c.

2213. Collection of one packet each of the above colors, 50c.

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Marguerite Carnations in separate colors. $\frac{1}{4}$ oz., 25c; $\frac{1}{4}$ oz., 40c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

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Celosia Cristata. Cockscomb. Freely blooming annuals; grow best in light soil not too rich. They make splendid border plants.

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Celosia Plumosa. Feathered Cockscomb. These make fine plants for large beds or groups.

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2222. *Golden Plume.* Bright golden-yellow plumes. Pkt., 10c.

2223. *Plumosa, mixed. Feathered.* All colors. Pkt., 5c.

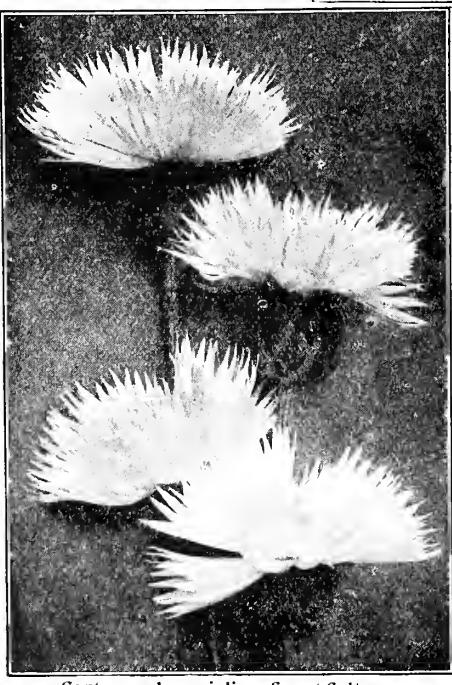
Centaurea Imperialis. Sweet Sultan. This is without doubt the most beautiful of all the Centaureas. The beautiful sweet scented, artistic shaped flowers are borne on long, strong stems and when cut will stand for days in good condition. The plant itself is much stronger than any other Sweet Sultan. It is of very easy culture. One of the best annuals for cut flowers.

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2230. *Splendens.* Purplish lilac. " 10c. Collection of one pkt., each of above five var's, 40c.

2231. *All Colors Mixed.* Large pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 75c.



Centaurea Imperialis. Sweet Sultan.

2232. **Centaurea Margarita.** Giant White Sweet Sultan. The flowers of improved variety are much larger than the older sorts. They are pure white, deliciously scented, with long stalks, and last very well in water. $\frac{1}{8}$ oz., 25c; pkt., 10c.

2233. **Centaurea Gymnocarpa.** Dusty Miller. Silvery-white, leaves broadly cut—very popular foliage plant for bedding, hanging baskets and pots, extensively used for edging Geranium beds, Cannas and Salviyas. Sow seed early indoors and transplant in May. Pkt., 10c.

Chrysanthemum. Annual varieties. These are showy and effective garden varieties finely cut. The single varieties grow 12 to 18 inches high and produce on long stems large flowers resembling the Daisy, but of many bright colorings in distinct bands or rings.

2235. Fines Mixed, Single. Pkt., 5c 2239. Double White. Pkt., 5c

2237. Finest Mixed, Double. Pkt., 5c 2240. Double Golden Yellow. Pkt., 5c

See Perennial Chrysanthemum, page 79.

Cineraria. Magnificent and indispensable flowering plants for the conservatory or window garden. The flowers measure 2 to 3 inches across, are of white, blue, violet and crimson shades; usually two or more colors are shown in one flower.

2242. Double Large Flowering, mixed. Pkt., 35c.

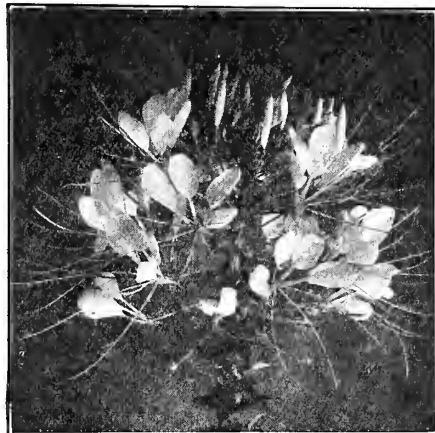
Clarkia. Bright and attractive annuals of easy culture. The long graceful sprays are valuable for table decoration. They thrive in sun or shade, growing 2 to 2½ feet high, with masses of double flowers, which all open in water when cut.

2241. Brilliant. Rich crimson-scarlet, very double. Pkt., 10c.

2243. Salmon Queen. Salmon-pink, extra double. Pkt., 10c.

2253. Scarlet Queen. Brilliant orange-scarlet, a rare shade. Pkt., 10c.

2244. Double. All colors mixed. Oz., 35c; pkt., 10c.



Northrup, King & Co.'s Extra Early Cosmos.

Northrup, King & Co.'s Extra Early and Mammoth Cosmos.

Cosmos is the showiest of our late Summer and Autumn blooming annuals. Its graceful flowers borne on long stems, rising above the feathery foliage are very desirable for home or church decoration, lasting a week or more in water. It is a very prolific bloomer and if the plants are given enough space to develop well, will branch freely, every shoot being covered with a mass of lovely flowers. Cosmos is very effective among shrubbery, and especially desirable for interplanting with early blooming perennials as it fills in the gaps when the latter die down.

Extra Early Cosmos. The earliest flowering variety in cultivation, blooming fully two months in advance of any other strain known. Seeds sown in open ground, in early May, will produce blooming plants in July, and continue a mass of bloom until killed by frosts. It is the result of painstaking selection from a few plants several years ago, which showed a decided tendency to earliness. This desirable trait is so well established, that instead of a few plants coming early,—as in other early varieties—our Extra Early Cosmos is uniformly so, and will bloom in any part of the North. The plants grow about four feet tall.

2262. Northrup, King & Co.'s Extra Early. All colors, mixed, $\frac{1}{4}$ oz., 35c; pkt., 10c.

2263. Extra Early Crimson. Pkt., 10c. 2266. Extra Early White. Pkt., 10c.

2265. Extra Early Rose. Most pleasing color of all. Pkt., 10c.

2267. Collection. Packet each of three colors, 25c.

2254. Dawn. This variety comes into flower in July, growing from 4 to 5 feet high. The flowers are large, the color a beautiful white, relieved by a delicate tint of rose at the base of the petals. Pkt., 10c.

Mammoth Cosmos. The following varieties of Cosmos usually do not start blooming until several weeks after the Extra Early sorts, consequently they are sometimes nipped by early frost. To insure success therefore, it is best to start all Mammoth varieties in doors in early April, later transplanting them to the garden when danger of frost is over. By this method they start to bloom in good season and the very large flowers well repay the extra trouble.

2255. Mammoth Crimson. Pkt., 10c 2259. Mammoth White. Pkt., 10c

2257. Mammoth Pink. Pkt., 10c 2261. Mammoth Yellow. Pkt., 10c

2260. Mammoth Mixed. All colors. Pkt., 10c.

Cleome Pungens. Giant Spider Plant. Grows four high, strong and sturdy. Flowers borne in abundance, rosy-pink fading to white. Seed pods give the appearance of a big spider. Used largely in the Minneapolis parks. Very attractive for beds and mass planting. Pkt., 10c.

Cobaea Scandens. Cathedral Bells. One of the handiest and most rapid growing of the annual climbers. Climbs thirty feet in a season. The flowers are bell-shaped. Very prolific and perfectly hardy. The vine is always clean and free from insects.

2245. White, ptk., 10c. 2247. Blue, ptk., 10c. 2249. Mixed, ptk., 10c.

2250. Coccinea Indica. Scarlet-fruited Ivy-leaved. An attractive annual climber of the Gourd family. The leaves are smooth, glossy and ivy-like, contrasting beautifully with the snow white, bell-shaped flowers and brilliant scarlet fruit. Pkt., 10c.

2248. Coix Lachryma. Job's Tears. An ornamental grass with broad leaves and shiny, pearl-like seeds, used for beads. Plant early in the Spring, four or five seeds in a hill, one-half inch deep. Three feet high. Oz., 25c; ptk., 5c.

Coleus. The most largely used, perhaps, of all bedding plants. These are easily grown from seed. Plants on page 96.

2251. Mixture of Fancy Fringed Coleus. Pkt., 25c.

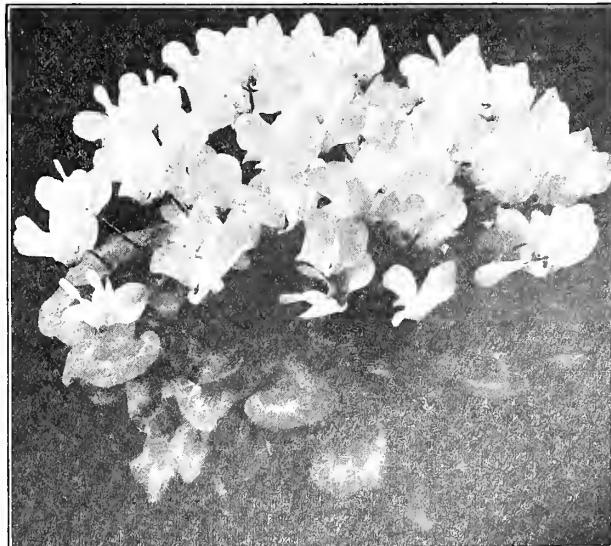
2252. Mixed Coleus. Tall growing plants of many bright colors. Pkt., 25c.

2268. Cosmidium Burridgeanum, Orange Crown. Very handsome new annual, forming elegant, many-branched bushes of $1\frac{1}{2}$ to 2 feet in height. The flowerheads, $1\frac{1}{2}$ to $1\frac{3}{4}$ inches in diameter, are carried on long, slender, but self-supporting stems well above the graceful, linear foliage. Ray florets golden yellow with a broad conspicuous circle of a rich orange around the disc, a pleasing combination of colors. As the plants produce a constant succession of bloom throughout the Summer and the flowers last well in water. Pkt., 20c.

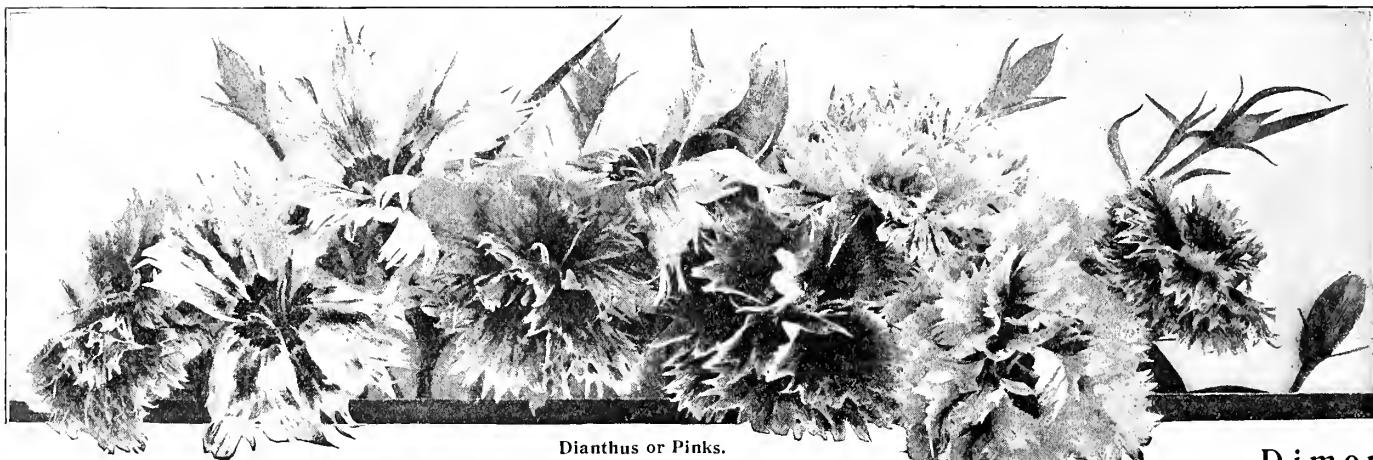
2270. Cyclamen. Giant Flowered. Charming plants with beautiful foliage and rich colored fragrant flowers. Considered by many to be the finest Winter flowering plant we have. Sow seed may be sown Spring or Autumn. The culture of Cyclamen from seed is much more satisfactory than from bulbs. Mixed colors. Pkt., 25c.

Culture for Cyclamen. Sow the seed in gentle heat, in shallow boxes or pans filled with a compost of sandy loam, leaf mould and coarse sand. Sow seed on surface and cover with two inches of wet sphagnum moss. Water carefully and keep at a uniform temperature of 50 to 60 degrees. When the plants have made 2 leaves transplant into small pots.

2272. Cypress Vine. One of the most popular vines with its delicate fern-like foliage and mass of beautiful star-shaped flowers. All colors mixed, oz., 50c; ptk., 10c.



Giant Flowered Cyclamen.



Dianthus or Pinks.

Dahlia. Dahlias can be grown easily from seed so as to produce flowers the first year. This is as true of double Dahlias as of single. In the Dahlia are combined more desirable qualities than are found in almost any flower grown in the open ground. It can be had in perfection from June until cut down by frosts. In it can be found not only every imaginable color except blue, but the most beautiful combination of colors and marvelous blending of shades and tints imaginable. As a cut flower the Dahlia is unsurpassed, owing to its great diversity of bloom and the brilliant luster of its colorings.

2275. Northrup, King & Co.'s Sterling Mixed Dahlia. This mixture is intended to embrace seed of every desirable Dahlia procured from the most prominent Dahlia specialists of this and other countries, and blended by us. Full directions for culture (which is of the very easiest) sent with every packet. Pkt., 15c; 3 pkts., 35c.

2276. Twentieth Century or Orchid Flowered Dahlia. In size the flowers are giants, 4½ to 7 inches across, and in color vary from almost pure white to deep crimson. These large single flowers are truly magnificent. Pkt., 15c.

2277. Double Cactus Dahlia. Very desirable; many colors. Pkt., 15c.

2278. Double Dahlia. Very large flowering, fine mixed. Pkt., 15c.

2279. Single Mixed Dahlia. All colors. Pkt., 10c.

For Dahlia roots see pages 98 and 99.

2282. Datura. Angel's Trumpet. Showy, large, branching plants growing 5 to 6 feet high, bearing large trumpet-shaped flowers, 6 inches in length and very fragrant. Mixed seeds of all varieties, pkt., 5c.



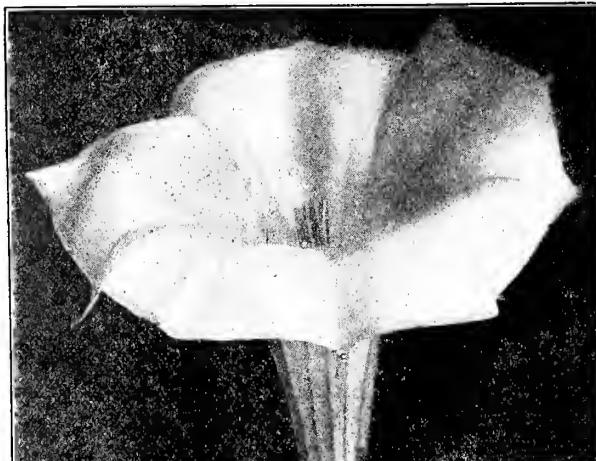
DIMORPHOTHECA AURANTIACA

Dianthus or Pinks. One of the most popular and magnificent flowers in cultivation, producing a great variety of brilliant colors and profusion of bloom. The annual varieties may be sown out of doors when danger from frost is past and in a few weeks time they are a mass of bloom, continuing so until frost. 1 foot. 2283. Double Annual Pinks, Mixed. A fancy mixture of beautiful varieties. ¼ oz., 25c; pkt., 5c.

2284. Dianthus. Double Lucifer. This new annual Pink represents the double flowered form of the Dianthus Vesuvius. The nicely fringed double flowers, 1½ to 2 inches across, are of an intense orange-scarlet, a dazzling color in full sunshine and the most striking of all red flowered annual Pinks. The plants grow 12 to 15 inches high and may be advantageously used for effective flower-beds. We are certain that the flowers of this new variety will be of the same great value and importance for cutting among the annual Pinks, as the bright scarlet flowered variety "Grenadin" has attained among Carnations. Pkt., 15c.

2285. Single Annual Pinks, Mixed. A beautiful mixture of all the single varieties. ¼ oz., 25c; pkt., 5c.

2286. Hardy Garden Pinks. Fancy mixed. Contains all the desirable colors. ¼ oz., 50c; pkt., 15c.



DATURA

2290. Dimorphotheca Aurantiaca. Orange African Daisy, A rare and ex-

African Daisy, A rare and ex-tremely showy annual Daisy from South Africa which thrives under our climatic conditions perfectly. The bushy plants grow 12 to 15 inches high. The flowers, 2½ inches across, are a unique, rich, glossy orange-gold, with dark disc and these glitter in the sunshine and present a magnificent sight. Seed may be sown in the same way as Asters. They bloom the greater part of Summer and Fall. Pkt., 10c.

Dolichos. Hyacinth Bean. A rapid growing and free

flowering annual climber. The seed pods which follow the flower are very ornamental for covering arbors, trellises, etc. After danger of frost is over, sow the seeds where they are to remain. The soil should be well pulverized and the seed covered to a depth of about 4 times their size. Press down firmly with a board, and thin out so that the plants will not become crowded. For early flowering they should be sown indoors in a shallow box, and transferred to the open ground when the weather becomes suitable.

2292. Daylight. Early becomes covered with spikes of snow white, pea-shaped blossoms, which continue until late in Fall. Oz., 25c; pkt., 10c.

2293. Darkness. Identical with "Daylight" except in color, which is a rich purple violet. Oz., 25c; pkt., 10c.

2294. Lablab. Mixed purple and white. Oz., 20c; pkt., 5c.

Dusty Miller. See page 65.



DOLICHOS

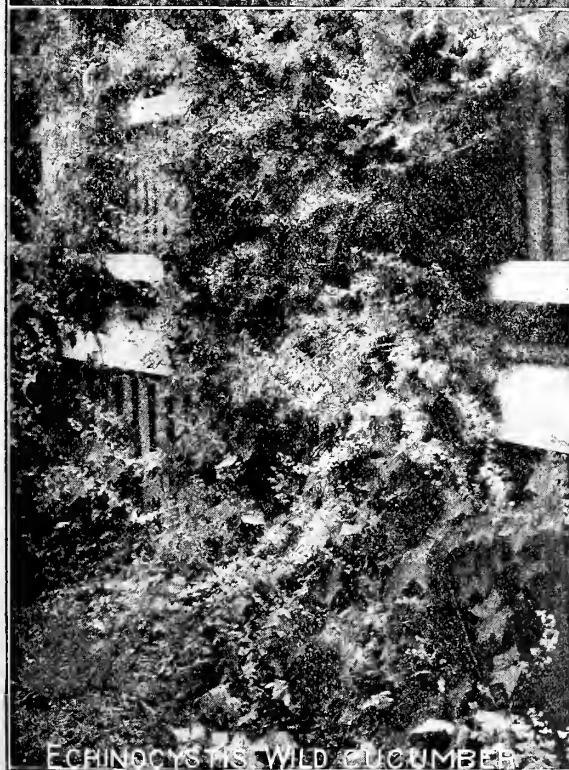


GAILLARDIA

HELIANTHUS SUNFLOWER



ESCHSCHOLTZIA OR CALIFORNIA POPPY



ECHINOCYSTIS WILD CUCUMBER

2295. Echinocystis. Wild Cucumber Vine. A well known vine, common in many sections, and the quickest climber known for covering verandas, old trees and houses, trellises, etc., never suffering from the heat but retaining its fresh and lively green color; never infested with insects, and very profuse in bloom. It will sow itself and come up in the same place. Sow seed in Fall. Oz., 25c; pkt., 5c.

Eschscholtzia. California Poppy. The California Poppy is a showy, free-flowering plant so popular with everyone as to scarcely need introduction. Particular attention is drawn to *Huonmannia* often called Bush Eschscholtzia, offered on page 68. This is a beautiful herbaceous perennial, which flowers freely the first year and bears a great abundance of brilliant yellow tulip-shaped flowers. Do not overlook this beautiful variety in placing your orders.

2300. **Golden West.** Bright yellow with large rayed blotches of deep orange at base of petals. Oz., 50c; pkt., 5c.

2301. **Mandarin.** Inner side of the petals rich orange, outer side brilliant scarlet. Oz., 30c; pkt., 5c.

2302. **Rose Cardinal.** Large flowers of intense carmine. Oz., 40c; pkt., 10c.

2304. **Crimson.** Very rich color, one of the most beautiful. Oz., 50c; pkt., 10c.

2303. **All Colors, Mixed.** Oz., 30c; pkt., 5c.

2305. Fuchsia. Double and Single Mixed. Fuchsias are as easily grown from seed as from cuttings, and from seed many new varieties are obtained. They will flower freely the first year in the open ground, while the plants can be taken in the house in the Winter, where they will flower freely. Pkt., 35c.

Gaillardia. Blanket Flower. Remarkable for the profusion, size and brilliancy of the flowers, blooming from early Summer until November. Excellent for borders or for cutting.

2307. **Picta Lorenziana.** A charming, profuse, double flowering strain. Beautiful mixed colors. $\frac{1}{4}$ oz., 20c; pkt., 5c.

2308. **All Annual Varieties, Mixed.** $\frac{1}{4}$ oz., 20c; pkt., 5c.

Perennial Varieties. See page 79.

Geranium. Comparatively few are aware that Geraniums may be grown easily from seed and flower the first season if sown early. This is the best way to secure Geraniums as they will frequently reward the cultivator with charming new varieties. In fact, propagation by seed is the only way to obtain new varieties. See page 90 for plants.

2310. **Zonale, Mixed.** A superb strain of the largest and finest varieties. Pkt., 15c.

2311. **Pelargonium, Mixed.** (Lady Washington.) Saved from the finest fancy and spotted large-flowering sorts. Pkt., 25c.

2312. **Globe Amaranth. Gomphrena.** with pretty, clover-like heads of purple, white and red flowers, 12 inches. Flowers can be dried and used in Winter bouquets. Finest mixed, reddish-purple and white. Oz., 25c; pkt., 5c.

2313. **Gloxinia. Hybridia Grandiflora.** The Gloxinia is one of the most beautiful flowers, very few possessing the depth of color peculiar to this superb genus. An unsurpassed strain, containing the spotted Hybrids as well as the finest self-colored sorts. Pkt., 35c.

2317. **Gourds. Ornamental.** Mixed Varieties. Oz., 15c; pkt., 10c. See page 33.

Helianthus. Sunflower. Hardy annuals, of sturdy growth, remarkable for the size and brilliancy of the flowers. Very useful as cut flowers. Effective in forming background of large beds or borders and for distant effect.

2325. **Chrysanthemum Flowered.** Perfectly double; the color is the brightest golden yellow. The flowers are so perfect in form that they resemble very much double Chrysanthemum-flowered Asters with long stems; grows seven feet high and bears profusely all Summer long. Pkt., 5c.

2326. **Cucumerifolius. MINIATURE SUNFLOWER.** Single, rich golden yellow, with black center. An abundant bloomer, of branching habit, coming into flower in July and continuing until frost. 4 feet. Pkt., 5c.

2324. **Double California.** Handsome double flowers, dark yellow; 5 ft. Pkt., 10c.

2327. **Giant Russian.** Immense single flowers, yellow with large black center. 6 feet. Pkt., 5c.

2328. **Orion.** Very effective sort, particularly on account of its twisted petals, which resemble a Cactus Dahlia. Pkt., 10c.

2329. **Perkeo.** This is a beautiful dwarf variety of the miniature Sunflower. The plants form compact bushes about 12 inches high and about 15 inches through. Very useful for the front of borders or beds of plants of medium height. Flowers continually from early July until cut down by killing frost. Single; charming golden yellow, with black center. Pkt., 10c.

2330. **Cut and Come Again Sunflowers; Single and Double in a beautiful mixture of all varieties.** You will be delighted with these, flowering as they do from June until killing frost. Indispensable as cut flowers and also very popular for garden decoration. $\frac{1}{4}$ oz., 20c; pkt., 10c.

See page 82 for perennial Sunflowers.



Godetia. An attractive, hardy annual deserving more extensive cultivation. The plants bloom profusely and bear showy, mallow-like flowers of rich and varied colors. One foot in height.

2314. Albemarle. Dark crimson. Pkt., 5c. 2318. Lady Satin Rose. Carmine. Pkt., 5c.

2316. Duchess of Albany. Pure white. Pkt., 5c. 2315. All Colors, Mixed. Oz., 35c; pkt., 5c.

2319. **Grasses. Ornamental.** For large beds or groups on lawns nothing gives a finer effect. Mixed. Pkt., 10c.

Gypsophila. Bridal Veil. Baby's Breath. Its graceful panicles of dainty blossoms and feathery foliage are unequalled for making up bouquets. Sow at intervals during the Summer. See page 80 for perennial variety.

2320. *Elegans alba grandiflora.* Pure white. Oz., 25c; pkt., 5c.

2321. *Elegans carmine.* New shade. Pkt., 5c. 2323. *Elegans rosea.* Rose. Pkt., 5c.

Helichrysum. Everlasting. Large, double, daisy-like blooms, produced in shades of yellow and scarlet. Frequently dried and used for Winter bouquets. Flowers should be gathered when on the point of expanding. 2 to 2½ ft.

2322. **Giant Double Mixed.** ¼ oz., 25c; pkt., 10c.

Heliotrope. Is a universal favorite on account of its delightful fragrance and long duration of bloom, flowering equally well as bedding plants in Summer or as pot plants in the house in the Winter. It is not generally known that Heliotrope may be raised from seed as easily as the Verbena. The best varieties in mixtures, ½ oz., 50c; pkt., 15c. For plants see page 90.

Hollyhocks, Everblooming Annual. A comparatively new class of easy culture and flowering as quickly from seed as any garden annual. The plants from early sown seed set out in May begin flowering in July; the May sown in August; but in either event they flower profusely until frost. The plants are vigorous in growth and naturally branching in habit, and if given the best of treatment will thrive luxuriantly. The soil should be very rich, deeply dug, and during dry weather watered liberally. The diversity of forms and colors is delightful. There is a great variety of colors and color combinations in this strain, including maroon, pink, rose, crimson, white, cerise, scarlet and many variegations, of dainty and exquisite blending. See page 88.

2335. **Double and Semi-Double Mixed.** Pkt., 15c; 250 seeds, 50c.

2337. **Single Mixed.** Pkt., 15c; 250 seeds, 50c.

Humulus Japonicus. Japanese Hop. One of the most rapid climbers grown; seed can be sown in the open ground in the Spring and it will attain enormous dimensions very quickly. The foliage is luxuriant, and it is one of the best plants for covering verandas and trellises. Heat, drought and insects do not trouble it. See illustration on page 69. ¼ oz., 25c; pkt., 10c.

Hunnemannia. Giant Yellow Tulip Poppy or Bush Eschscholtzia. Flowers are a rich shade of buttercup yellow, with feathery glaucous foliage. The best of the Poppy family for cut flowers, remaining in condition for several days. Seeds sown in May will produce flowering plants in July, which blossom continuously until hard frost. ¼ oz., 25c; pkt., 10c.

Ice Plant. Dwarf trailing annual, white flowers and thick, ornamental leaves which appear to be covered with crystals. Thrives in bright sunlight and dry situations. Pkt., 10c.

Impatiens Holstii. Charming plants for the decoration of the house or dinner table, producing bright, waxy flowers profusely and continuously.

2345. **Dwarf Vermilion Orange.** Dwarf compact growing variety of the attractive Impatiens Holstii. A very beautiful plant. It forms regularly branched bushes, from 6 to 8 inches in height by 10 to 12 inches in breadth, and produces its lovely, bright vermillion orange flowers in the greatest profusion throughout the season. Foliage and stem light green. Planted out of doors in a half-shady situation or grown in pots, this dwarf variety will always be very effective and showy. Pkt., 25c.

2347. **Dwarf Deep Scarlet.** Another dwarf variety with dark foliage and stems; flowers about an inch across, of a beautiful deep scarlet. Equally as useful as the preceding sort. Pkt., 25c.

Kochia. Summer Cypress or Mexican Fire Bush. An easily grown annual, which sown thinly in Spring soon forms a cypress-like hedge of lively green and of perfect symmetry; it attains a height of about 3 feet, and on the approach of Autumn the whole plant becomes a deep red; a splendid plant to divide the vegetable from the flower garden, or for forming a hedge for the Summer for any purpose. See page 69. ¼ oz., 25c; pkt., 5c.

Lantana. Well known bedding plants, with clusters of Verbena-like flowers, producing pink, yellow, orange and white heads in great abundance. They have an agreeable aromatic perfume. Mixed, ¼ oz., 25c; pkt., 10c.

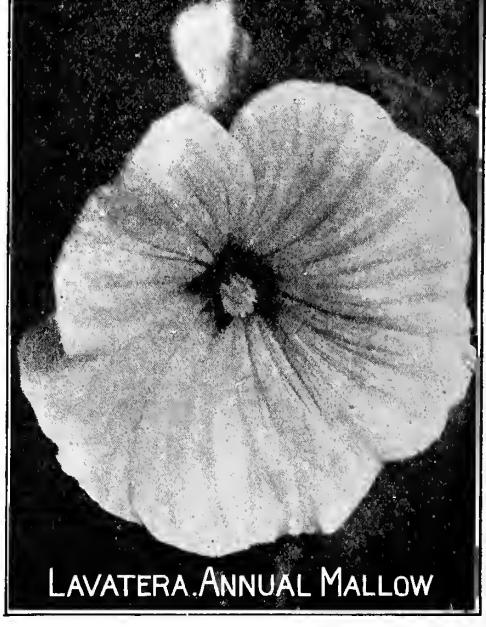
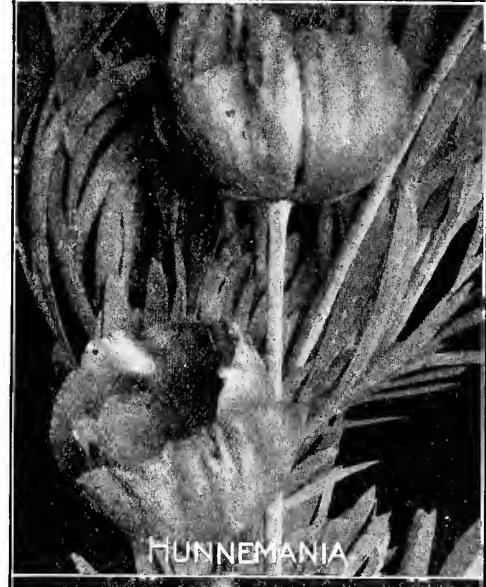
Larkspurs. This is one of the best known garden flowers. A vast improvement has been effected, by careful selection and attentive cultivation, in size and color of the blossoms and the general habit of the plant. Hardy annuals. (For Perennial Larkspurs see Delphinium, page 79.)

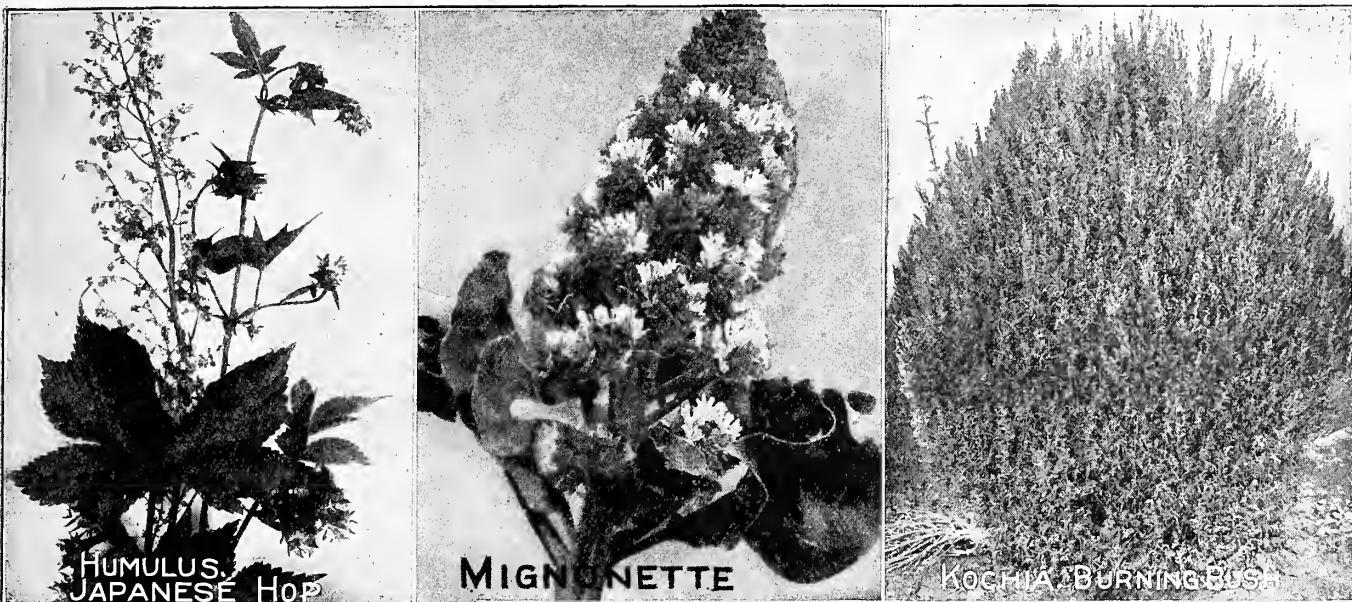
2353. **Dark Blue.** Pkt., 10c. 2355. **Sky Blue.** Pkt., 10c.

2354. **Shell Pink.** 10c. 2356. **Pure White.** 10c.

2357. **Finest Mixed. All colors.** ¼ oz., 20c; pkt. 10c.

2358. **Collection.** Packet each of the four colors, 35c.



HUMULUS
JAPANESE HOP

MIGNONETTE

KOCHIA BURNING BUSH



AFRICAN MARIGOLD



MATRICARIA FEVERFEW

Lavatera. Annual Mallow.

The soil should be well pulverized and the seed covered to a depth of about 4 times their size. 2359. *Trimestris grandiflora rosea*. A very beautiful and showy annual, growing about 2 feet high and covered during the entire Summer with large, cup-shaped, shrimp-pink flowers. Sow in May where they are to bloom and thin out to 12 inches apart. $\frac{1}{4}$ oz., 25c; pkt., 5c.

2360. **Linum. Crimson Flax.** One of the most effective and showy bedding plants. Flowers brilliant scarlet. Oz., 25c; pkt., 5c.

2362. **Lupins. Annual Mixed.** Very desirable garden plants, showy and excellent for cutting. Graceful spikes, 2 feet long, in various shades of white, blue, pink and yellow. Oz., 25c; pkt., 5c. (See *Lupinus* or *Perennial Lupins* page 81.)

2363. *L. subcarnosus*. A fine border plant, producing handsome spikes of the deepest sea-blue flowers; delicately fragrant. Hardy annual. Pkt., 10c.

Marigold. Well known garden favorite of quick growth and very free-flowering habit. Seed should be sown in shallow drills in the open garden early in the Spring after danger of frost is over and the trees are well out in leaf. Plants for early blooming may be started in boxes, placed in a sunny window in March, and the young plants grown in pots until the weather is warm enough to set outdoors. See *Calendula*, page 64.

2364. **French Marigold.** These are dwarf, compact plants, very attractive, each being covered with hundreds of small, bright flowers. Mixed—embraces all the best varieties, including Gold Striped, Legion of Honor, etc. $\frac{1}{4}$ oz., 20c; pkt., 5c.

2365. **African Marigold.** Plants grow $2\frac{1}{2}$ feet high and produce large double flowers $2\frac{1}{2}$ to 3 inches in diameter in great profusion of glowing colors.

2367. **Mixed;** includes Eldorado, Gold Nugget, Lemon Queen, etc. $\frac{1}{4}$ oz., 20c; pkt., 5c.

2370. **Marvel of Peru. Four O'Clocks.** A well known, handsome, free-flowering garden favorite; does well everywhere, fine mixed colors; 2 feet. Oz., 20c; pkt., 5c.

2372. **Matthiola Bicornis. Evening Scented Stock.** No annual in cultivation equals this in delicate perfume of its flowers. The pink and lilac blossoms partly close during the day but expand and impart their fragrance in the evening. $\frac{1}{4}$ oz., 20c; pkt., 5c.

Culture for Matthiola Bicornis. Sow out of doors, when danger from frost is over, in the bed or border where they are to flower. The soil should be well pulverized and the seed covered to a depth of about 4 times their size. Press down firmly with a board, and thin out so that the plants will not become crowded. For early flowering sow in doors in a shallow box, or hot-bed, and transfer to the open ground when the weather becomes suitable.

2374. **Matricaria Eximia. Feverfew.** The plant is covered with numerous and freely branching flower stems which are literally covered with very double, pure white flowers, 1 inch in diameter. Pkt., 10c.

2375. **Maurandia.** Beautiful, rapid climber, blooming profusely until late in Autumn; also fine for conservatory; if desired for house, take up before frost.

Half hardy perennial, flowering the first season if sown early; 10 ft. Mixed colors. Pkt., 10c.

Mignonette. Reseda. A well-known fragrant favorite; no garden is complete without a bed of Mignonette. Sowing made in April and again in July will keep up a succession from early Summer till frost.

Culture. Sow out of doors, when danger from frost is over, in the bed or border where they are to flower. The soil should be well pulverized and the seed covered to a depth of about 4 times their size. Press down firmly with a board, and thin out so that the plants will not become crowded. For early flowering they should be sown indoors in a shallow box, or in a hot-bed, and transferred to the open ground when the weather becomes suitable.

2376. **Sweet Scented. Reseda Odorata.** The old-fashioned variety with small spikes, but the most sweetly scented of all. Oz., 20c; pkt., 5c.

2377. **Golden Machet.** Distinct variety of Machet, differing from the type by its massive spikes of golden yellow blossoms. $\frac{1}{4}$ oz., 25c; pkt., 10c.

2378. **Mile's Hybrid Spiral.** Of strong branching habit, with spikes from 8 to 10 inches long; very fragrant. Oz., 35c; pkt., 5c.

2379. **Improved Red Victoria.** Fine spikes of brilliant red. $\frac{1}{4}$ oz., 25c; pkt., 10c.

2380. **Large-Flowering Pyramidal.** Flowers large, of a reddish tint; a good variety for the open ground. $\frac{1}{4}$ oz., 20c; pkt., 10c.

2381. **Machet.** Adapted for pot culture; dwarf pyramidal growth, bearing numerous flower stalks; highly colored and very fragrant. $\frac{1}{4}$ oz., 25c; pkt., 10c.

2382. **Parson's White.** Large spikes, pure white, very fragrant. $\frac{1}{4}$ oz., 20c; pkt., 10c.

2383. **Salmon Queen.** Strong, robust habit, with fine spikes, of bright salmon-red flowers, intensely fragrant; fine for outdoor culture. $\frac{1}{4}$ oz., 25c; pkt., 10c.

2384. **Mimosa pudica. Sensitive Plant.** Curious and interesting, pinkish-white flowers; the leaves close and droop when shaken; $1\frac{1}{2}$ ft. Pkt., 10c.

2385. **Minneapolis Vine. Pilogyne Suavis.** We are glad to be able to offer this very beautiful climber, the seeds of which we have sold for years, to the delight of thousands who have bought them. The foliage is most elegantly cut and of a shiny, dark green. Flowers are small, white and sweet-scented. It is of easy culture, rapid growth, and especially adapted for trellises. This is the most beautiful vine of which we know. Pkt., 15c.

List of Annual Climbing Vines from Seed. Balloon Vine, Canary Bird Vine, Cobaea Scandens, Coccinea, Cypress Vine, Dolichos, Gourds, Japanese Hop, Maurandia, Moonflower, Morning Glory, Nasturtium, Sweet Peas, Thunbergia.

Morning Glory. Convolvulus. One of the most free-flowering and rapid-growing climbers, thriving in almost any situation. The flowers are very delicate, brilliant and beautiful.

2387. **Japanese Improved or Giant Mikado Morning Glory.** The flowers are of gigantic size, and the colorings and markings beyond description, ranging from snow-white to black-purple, with all the possible intermediate shades. Others are edged with white, having throats of one of the above colors; there is also an endless number having flowers spotted, marbled, striped, flaked and splashed. They are beyond question the largest and most beautiful of this handsome family of easy grown climbers and are the Orient's best gift to flower lovers. Wherever climbers can be grown, our New Giant Mikado Strain should have a prominent place. The seed we offer is of our own importation direct from Japan, and embraces plain singles, (which are really the handsomest), semi-doubles, quilled and frilled, crimped and scalloped, and double. Oz., 25c; pkt., 10c.

2390. **Tall Morning Glories Mixed.** A great variety of colors of the old-fashioned, popular, rapid growing climber. Oz., 15c; pkt., 5c.

2391. **Double Flowering Morning Glories.** A very large percentage of the seedlings will produce double flowers. Oz., 50c; pkt., 10c.

2392. **Dwarf Morning Glories Mixed.** Hardy annual, 1 foot in height. Colors range from pure white to deep purple. Oz., 15c; pkt., 5c.

2395. **Moonflower.** Bears lovely white flowers 5 to 6 inches in diameter, with a fine painted star in the center. The flowers open at dusk, or earlier on cloudy days, at which time they are deliciously fragrant. Start the seed in the house and set out as early as safe in the Spring. Pkt., 10c.

2402. **Nicotiana Affinis.** Tuberose-flowered Tobacco. Delightfully sweet-scented, pure white tubular flowers, blooming continually; annuals, 2 to 3 feet. $\frac{1}{4}$ oz., 25c; pkt., 5c.

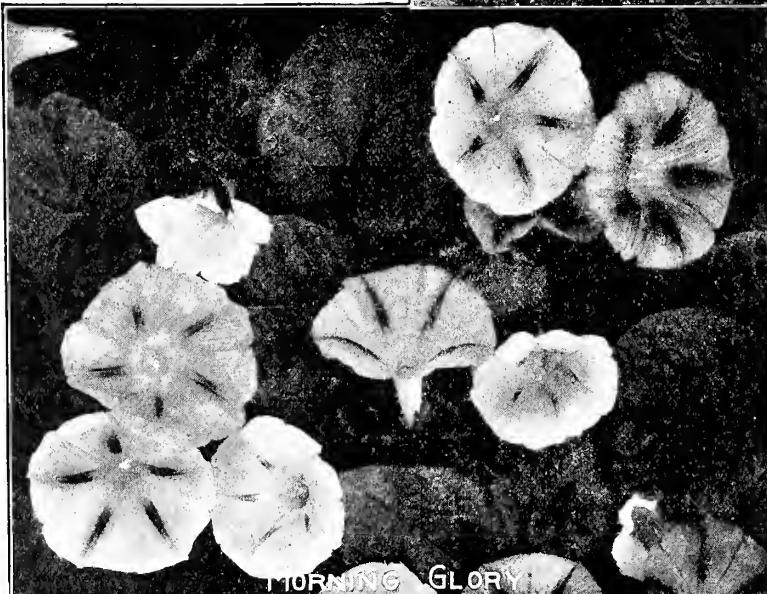
2404. Nicotiana

Sanderæ. Carmine Tuberose Flowered Tobacco. This beautiful hybrid Nicotiana has been spoken of as a most strikingly beautiful plant. The originators describe it as forming bushy much-branched plants, 2 feet high, the whole plant laden with flowers from base to summit—literally ablaze with handsome carmine-red, fragrant blossoms, thousands of which are produced on a single plant. In form the flower resembles Nicotiana Affinis, but having a short, stout tube, and, unlike that variety, does not close up in daytime, but remains open all day; the fragrance, while not so powerful as Nicotiana Affinis, is decidedly delicious. It is as easy to grow as Petunia. If started indoors in early Spring and planted out in May it gives a continuous display of blooms all Summer and Autumn. It can also be sown in warm ground. Pkt., 15c.

Book on Flowers and How to Grow Them. By Eben E. Rexford. Price, 50c, (postpaid, 55c).



Nicotiana Affinis



MORNING GLORY



NIGELLA. LOVE IN A MIST

2405. Nicotiana Sanderæ Hybrids.

A splendid type in a great diversity of color. All colors mixed; pkt., 15c.

2407. **Nigella Damascena.** Love in a Mist, or Devil in the Bush. A compact, free-flowering plant, with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annual; blue and mixed; 1 foot. Oz., 25c; pkt., 5c.

2409. **Nemophila.** Splendid free-flowering hardy annuals, of very neat, compact habit. Flowers are cup-shaped, appearing in many brilliant colors, the blue shades being particularly striking. Blossom continuously throughout the Summer, thriving best in a cool, or moist, shady place where the soil is not too rich. All colors mixed, with many shades of blue. Oz., 30c; pkt., 5c.

Culture for Nemophila. Sow out of doors, when the danger from frost is over, in the bed or border where they are to flower. The soil should be well pulverized and the seed covered to a depth of about four times their size. Press down firmly with a board and thin out so that the plants will not become crowded. For early flowering they should be sown indoors in a shallow box, or in a hot-bed, and transferred to the open ground, when the weather becomes suitable.

2410. **Oenothera. Evening Primrose.** Beautiful, low-growing plant, producing large, silvery-white, rose and yellow flowers. They thrive best in a sunny position, but succeed in almost any situation or soil. Annual varieties; all colors mixed. Pkt., 10c.

2412. **Oxalis.** Beautiful small plants, suitable for the greenhouse, rock-work, or outdoor culture; flowering the first year; half hardy perennials; 9 inches. For bulbs see page 100.

2413. **Alpha.** White. Pkt., 10c.

2414. **Rosea.** Rose-colored. Pkt., 10c.

2415. **Tropaeoloides.** Excellent, dwarf bedding plant with dark brown foliage, forming a dense mat; flowers deep yellow but inconspicuous. Height 4 inches; pkt., 10c.

A Sheet of Bloom.

Your flower seeds are hard to beat. My yard is a sheet of bloom today. Petunias, Dahlias, Cosmos and Clematis are blooming now. The garden seeds were simply immense. Lettuce, radishes, tomatoes and cucumbers; all Sterling brand, were fine.

OTIS FLOYD, Texas.

Worth Their Weight in Gold.
I cannot praise your seeds too highly. They are the finest I ever used; worth their weight in gold.

JOHN WEBER, N. Y.

Book on Greenhouse Construction. By L. R. Taft. Various styles of greenhouse and plant house structures, also heating, ventilating, etc. Price, \$1.50, (postpaid, \$1.65).

Book on Home Floriculture. By Eben E. Rexford. A new and practical guide to the treatment of flowering and ornamental plants in the house and garden. Price, \$1.00, (postpaid, \$1.10).

Parsons on the Rose. By S. B. Parsons. Propagation, culture, training, classification and description. Price, \$1.00, (postpaid, \$1.10).

Iris Manual. By C. S. Harrison. Price, 25c, postpaid.
Peony Manual. By C. S. Harrison. Price, 25c, postpaid.

NASTURTIUM

Northrup, King & Co.'s Mixtures of Nasturtiums

For ease of culture, duration of bloom, brilliancy of coloring and general excellence nothing excels Nasturtiums. All they need is a moderately good soil in a well-drained, sunny position, and within a few weeks from the time they are sown until hard frost comes there is an endless profusion of their gorgeous blossoms. No annual will produce such a lavish profusion of flowers for so long a time, with the same small outlay of time and labor. The maximum of bloom is produced in light or sandy soils and seldom diminishes through the hot weather. The varieties offered below were selected from a very large number of sorts as the best and most distinct.



It is our intention that every package of seed, large or small, that bears the name of Sterling, shall be the best that money can procure anywhere at any price. Our mixtures of Dwarf and Tall Nasturtiums are shining examples of Sterling excellence as applied to flower seeds. These mixtures are made up by ourselves from the finest named varieties grown by the leading specialists of England, France, Italy, Germany and America. They embrace every desirable color, such as deep brown, red, golden-orange, flaming scarlet, chrome-yellow veined with carmine, burnished bronze color, crimson-scarlet, sulphur-yellow, spotted deep chocolate, light straw, delicate shades of rose and many other colors, tints and markings.

Our Sterling Mixture of Tall Nasturtiums should not be confounded with the common type, as the varieties in this mixture are mostly of the rich and velvety Lobb varieties. In this mixture are also included all the choicest colors of the climbing varieties, including the new Madam Gunther Hybrids and Chameleon sorts. The color combinations in the flowers are superb, a wealth of rich maroon, crimson, scarlet, magenta, and claret shades, marbled and mottled, streaked, spotted and splashed with white, cream, pink and rose. These climbing Nasturtiums are especially adapted for covering verandas, trellises, trees, stumps, etc.

2420. Northrup, King & Co.'s Sterling Mixture of Dwarf Nasturtiums. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

2425. Northrup, King & Co.'s Sterling Mixture of Tall or Climbing Nasturtiums. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

2430. Dwarf Nasturtium, Choice Mixed. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

2440. Tall or Climbing Nasturtium, Choice Mixed. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Nasturtium Novelties.

2545. Tall Ivy-Leaved Mixture. The plants are of running growth, with star-like pointed leaves of rich green, veined with white, so that the young shoots, where the leaves are set quite closely together, have a marked resemblance to the foliage of the hardy English Ivy. The flowers are of medium size and of most distinct form. The petals are quite narrow, and standing well apart present a striking star-like appearance. Pkt., 10c; oz., 25c.

2550. Dwarf Ivy-Leaved Mixture. A beautiful mixture, containing a remarkable range of color, including many not usually found in any other strain. Pkt., 10c; oz., 25c.

2520. Dwarf Golden Foliage Mixture. A charming novelty of unusual beauty, the contrast between the clear golden yellow foliage and the flowers being most remarkable. This mixture contains all colors. Pkt., 10c; oz., 25c.

2530. Variegated Foliage Queen of Tom Thumbs Mixed. The colors range from the deep crimson of parent to yellow, buff and spotted; of fine form and of the largest size. Very effective, forming a fine contrast to the silver variegated or cream and green colored leaves of the foliage. Useful for growing as single plants among other flowers, for edging walks, or surmounting walls. Very showy and a decided novelty of most surpassing beauty. Pkt., 10c; oz., 30c.

2542. Variegated Foliage Tall or Trailing Queen Mixed. A fine mixture of this charming new variety, containing all colors so far originated. The flowers are of many bright colors in pleasing contrast to the variegated blotched and spotted foliage. Pkt., 10c; oz., 30c.

Dwarf Lilliput Nasturtiums. A charming type of compact, dwarf growth. Very desirable for pot culture or for borders around beds. The color combinations are brilliant and beautiful. Our mixture contains many shades.

2552. Lilliput Mixed. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50. **Culture.** Sow in doors in early April, transplant to sunny border the end of May. If planted out doors sow in early May. Light sandy loam suits them best. One oz. of seed sows a 15 foot row.

Northrup, King & Co.'s Named Varieties of Nasturtiums.

Tom Thumb, Dwarf or Bedding Nasturtiums.

Price; any of the following varieties; pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

2450. Aurora. Primrose, veined carmine-pink.
2452. Beauty. Yellow with scarlet veinings.
2454. Bronze. Bronzy-orange.
2455. Chameleon. Various colors on one plant.
2458. Cloth of Gold. Scarlet, yellow foliage.
2459. Crystal Palace Gem. Sulphur, maroon blotches.
2460. Dark Leaved Varieties, mixed.
2461. Empress of India. Fiery crimson, dark foliage.
2462. King of Tom Thumbs. Dark scarlet, dark leaves.
2463. King Theodore. Crimson, shaded maroon.
2464. Lady Bird. Orange-yellow, suffused with red and a bright red blotch at base of petals.
2465. Pearl. Creamy-white.
2466. Regelianum. Deep purplish-crimson.
2467. Rose. Soft rose color.
2468. Ruby King. Crimson-rose.
2469. Spotted. Rich orange, spotted crimson.
2470. Spotted Varieties.
2471. Vesuvius. Salmony-rose, dark foliage.
Collection. One packet of each of the 18 Dwarf Varieties, 75c postpaid.

Tall or Climbing Nasturtiums.

Elegant climbers for verandas, trellises, etc. Useful to cover unsightly railings and trails over rough ground with fine effect. Gather seed pods for pickling while green and tender. 6 to 10 feet.

Price; any of the following varieties:—pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

2475. Chameleon. Various richly colored flowers on the same plant.
2476. Crimson. Rich and velvety.
2478. Chocolate. Very odd and unique shade.
2479. Fulgens. Dazzling crimson, dark foliage.
2480. King Theodore. Maroon, dark foliage.
2481. Lemon Yellow. Clear yellow, red veins.
2482. Lilac. Heliotrope-lilac.
2483. Orange. Pure orange.
2484. Pearl. Creamy-white.
2485. Purple. Rich purplish-crimson.
2486. Rose. Ruby rose.
2487. Scarlet. Brilliant shade of vermilion.
2488. Scarlet and Gold. Scarlet; foliage yellow.
2490. Vesuvius. Lovely salmon-pink.
2492. Ivy-leaved. Useful for hanging baskets and vases. A beautiful sort with deep green ivy-like foliage, forming a striking contrast to the crimson-scarlet flowers. Pkt., 10c; oz., 25c.
Collection. One packet of each of the 15 Tall Varieties, 70c postpaid.

Lobb's Climbing Nasturtiums.

Not be confounded with the common tall Nasturtiums, far surpassing them in the remarkable brilliancy of the flowers. These are much larger than those of the old-fashioned kind, and usually the petals overlap. Climbing Nasturtiums are adapted for verandas, trellises, etc.

2493. Finest mixed colors. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

Price; any of the following varieties; pkt., 5c; oz., 25c.

2495. Asa Gray. Primrose yellow, almost white.
2496. Atropurpureum. Deep crimson.
2498. Brilliant. Dark scarlet.
2500. Crown Prince of Prussia. Deep blood-red.
2502. Giant of Battles. Sulphur, blotched-red.
2504. Ivy-Leaved. Fine deep blue-green, ivy-like foliage, dark blood-red fringed flowers.
2506. Lilac. Odd shade of brownish-lilac.
2508. Princess Victoria Louise. Creamy-white, with conspicuous orange-scarlet blotches.
2509. Regina. Brilliant salmon-red on opening, changing as they age to almost a cream color.
2510. Roi Des Noirs. (King of the Blacks) Deep velvety garnet; very rich.
2511. Spitfire. Brilliant scarlet.
Collection. One packet of each of the 11 Lobb's Climbing Varieties, 50c postpaid.

NORTHRUP, KING & CO.'S PANSIES IN MIXTURES.

2615. Northrup, King & Co.'s Sterling Mixture.

A mixture of Pansies, unrivaled for diversity of coloring and marking. This mixture is made up from over 100 of the finest named varieties grown by Pansy specialists of the Old and New World. In making up this mixture, expense is not regarded. Our aim is to possess the finest mixture of Pansies obtainable. We have never seen its equal. The diversity of coloring and marking is almost beyond belief. We will cheerfully return money paid for this mixture to anyone who says it is not the finest they ever saw. Pkt., 50c; 1000 seeds, 75c.

2618. Northrup, King & Co.'s Bedding Mixed.

Composed of many standard sorts; admirably suited for beds or borders, strong growing plants, very free-blooming. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

2619. Bugnot's Superb Blotched.

Extra large flowers, charming brown-red and bronze shades. Pkt., 25c.



Types of
Northrup, King & Co.'s
Sterling Pansy Mixture.

2617. Northrup, King & Co.'s Giant Fancy.

While all the Pansies in our Sterling Mixture are large, we do not include in its make-up many of the giant sorts, for, as a rule, many of our customers prefer to buy them separately. Great improvement has taken place within the last two or three years, however, in the character of the largest Pansies. Our Giant Fancy is the finest mixture of the large varieties. For this is used only the seed from the very choicest blossoms.

It includes many of the newest production of famous growers. Pkt., 25c; $\frac{1}{4}$ oz., 75c.

2620. Cassier's Three and Five Blotched Giants.

Mostly delicate light shades with dark blotches. Pkt., 25c.

2621. Cassier's Five Blotched Giants.

Magnificent mixture. Pkt., 25c.

2622. Large Stained Parisian.

White or yellow shades with five striking blotches, very fragrant. Pkt., 25c.

2623. Masterpiece.

A remarkable type, the border of each petal being much curled or ruffled, so the flower appears to be double. Pkt., 25c.

2624. Orchid Flowered Mixture.

A new race showing beautiful tints of cream, pale mauve, blush, rose, primrose, with brown or golden yellow blotches which diffuse into rays or veins near the edge. The upper petals are plaited, resembling Orchids. Pkt., 25c.

2625. Odier's Five Blotched.

Seed gathered only from especially selected, show plants. Extra large yellow and white flowers. Pkt., 25c.

Giant Flowering Pansies.

	Pkt.		
2580. Adonis.	Light blue with a white centre.....	10c.	
2582. Auriculaeflora.	Superb mixed metallic shades.....	10c.	
2583. Canary Yellow.	Dark eye. Large beautiful yellow with three black blotches on frilled petals.....	15c.	
2584. Cardinal.	Of all so-called scarlets this is the nearest to a bright red.....	10c.	
2585. Comet.	White porcelain with fine blue or violet stripes on lower petals.....	10c.	
2587. Emperor William.	Ultramarine blue with large blotches of violet.....	15c.	
2588. Emperor Frederick.	Deep purple with golden bronze centre, edged scarlet and yellow.....	15c.	
2589. Eros.	Velvety chestnut, with broad golden border.....	10c.	
2591. Faust or King of the Blacks.	Darkest Pansy known, almost black.....	10c.	
2592. Fire King.	Upper petals bright reddish brown, on lower ones a dark blotch with yellow margin.....	10c.	
2593. Freya.	Deep purple, edged with silver. Golden Five Spotted. Strikingly handsome.....	15c.	
2595.	Golden Yellow.	Dark eye.....	10c.
2596.	Hortensia-Red.	Beautiful light rose.....	10c.
2597.	Light Blue.	Azule blue with dark eye.....	10c.
2598.	Lord Beaconsfield.	Deep purple violet, shading to white on upper petals.....	15c.
2601.	Mme. Perret.	Various shades of pink and rose. Very free flowering, extra large.....	10c.
2603.	Peacock.	Upper petals steel blue, remainder are deep claret with white margins. Very striking.....	15c.
2604.	Pres. Carnot.	Pure white with five deep violet blotches.....	10c.
2605.	Pretiosa.	Purple blotch on crimson back ground, pure white edge. Large flowered, curled.....	10c.
2611.	Prince Bismarck.	Golden-bronze.....	10c.
2613.	Prince Henry.	Dark blue.....	10c.
2606.	Psyche.	Exquisite velvety violet blotches, margined with white. Frilled petals.....	15c.
2608.	Snow Queen.	Large satiny white, light yellow center.....	10c.
2609.	Striped.	Mahogany with white stripes.....	10c.
2610.	Victoria.	Claret red, nearly a blood-red.....	10c.
2614.	Vulcan.	Magnificent deep red, with five very large black spots on frilled petals.....	10c.
2612.	White with Eye.	Large blossom with purple eye.....	10c.
Collection, Giant Flowering Pansies. 12 distinct varieties, \$1.00 postpaid.			

Pansy Culture.

For Spring plants the seed may be sown broadcast from July to September. Cover the seed very lightly with fine soil and press in with a board; then mulch the seed bed with long, loose, strawy manure, to a depth of 3 or 4 inches. The seed will be up in about 10 to 15 days; then remove the straw a little at a time. Transplant the seedlings to beds or frames in September or October and after a sharp frost, late in November or early December, provide a light or loose mulch of hay, straw or litter. The seed may also be sown indoors in January or February; or in Spring in the open ground, in a shady, cool spot where the plant can be protected from the strong mid-day sun. The soil should be very rich and liberal applications of bone meal should be given from time to time.

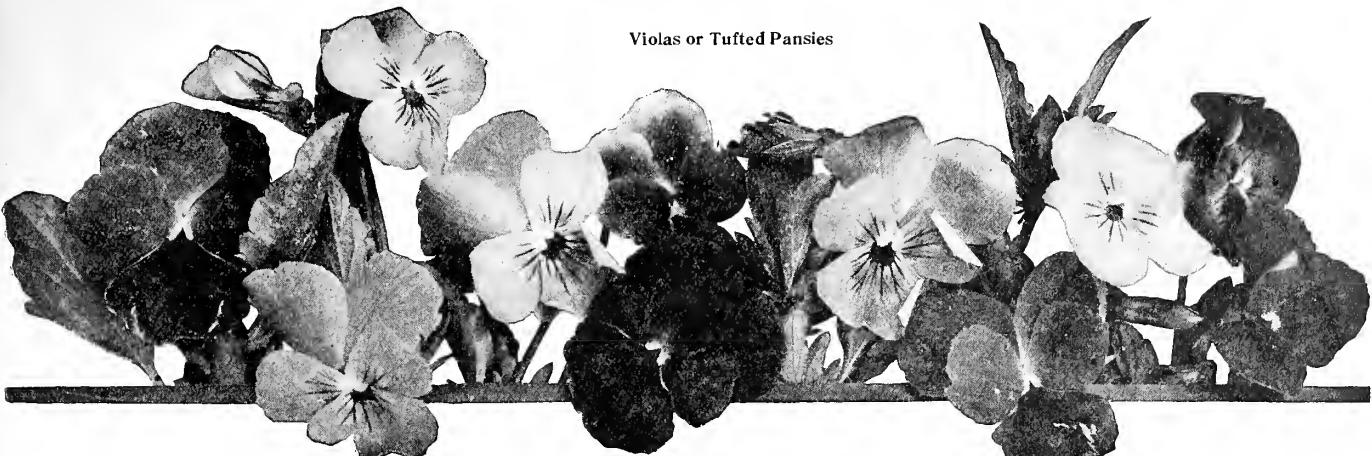
Hot-beds will be found exceedingly useful for raising Pansies. In case the plants have not been wintered over, the seed may be sown in March, following the directions given above except that the straw mulch may be omitted. In about five or six weeks from the time of sowing, the young plants should be transplanted in the beds so they will be two or three inches apart each way, and later they can be set out in the garden. These beds are also very convenient for wintering over the young plants that are started in the late Summer, as indicated above.

Pansies usually commence to flower in from seventy to eighty days from the time of sowing, under reasonably favorable conditions. They are natives of Western Europe where the climate does not have such extremes of temperature as ours. Consequently they do best in cool growing weather such as usually occurs in the Spring or late Summer and Fall.

For Pansy plants see page 90.

All flower and vegetable seeds are sent prepaid except where otherwise noted.

Violas or Tufted Pansies



Violas or Tufted Pansies

Violas are not yet fully appreciated, however nobody needs to see them more than once to realize how much they add to a garden. A border of these plants at Como Park, St. Paul, delighted thousands of visitors.

They are a remarkably free-blooming, hardy annual, especially adapted to shady places. The flowers are not so large as the other varieties of Pansies offered on page 72, but they blossom much more freely. Where mere color effect is wanted they are superior to Pansies. Used in masses or as border plants they are fine for edging walks or beds of taller blossoms.

Seeds sown in March or early April produce flowering plants in June, which are a mass of bloom from then until frost.

2630. Finest Mixed Colors.....	1/4 oz., 60c; pkt., 10c.
2631. Blue Perfection. Deep purplish blue.....	Pkt., 10c.
2632. White Perfection. Pure white.....	Pkt., 10c.
2633. Mauve Queen. Lilac-blue.....	Pkt., 10c.
2634. Firmament. Sky blue.....	Pkt., 10c.
2635. Thuringia. Charming variety. Dark violet blue, white eye. Pkt., 15c.	
2636. Purple Queen. Rich purple.....	Pkt., 10c.

Viola odorata. Sweet Scented Violet.

The deliciously fragrant, old-fashioned bouquet flower. It was popular in our Grandmothers' day and is still a favorite everywhere; a splendid hardy perennial. Violets are easily grown from seed, doing best in a cool, moist, partially shaded situation. The seeds being hard shelled often take several weeks to come up. Any of the following, 10c per packet.

2626. Blue. 2628. White. 2629. Mixed, blue and white.



Northrup, King & Co.'s Extra Large Flowering Petunia.

PETUNIA

The Petunia is peerless among annuals for effective Summer bedding or window boxes. It is of easy culture, early to blossom and continues all the Summer until frost. No other flower produces a greater diversity of color, or retains its freshness for so long a period. The doubles may be perpetuated, by cuttings in late Summer, for Winter house plants. Provide good soil and a sunny location. We have prepared these mixtures with the greatest care, and know that they are especially fine.

2555. Northrup, King & Co.'s Extra Large Flowering Petunias.

Mixed. This mixture embodies all of the latest varieties, and will prove an agreeable surprise even to those who expect much. All odd and notable kinds, black, crimson, white with yellow throats, marbled, veined, striped, variegated, etc. 1/4 oz., 35c; pkt., 15c.

2562. Fine Mixed.

Excellent for bedding; many splendid colors. 1/4 oz., 25c; pkt., 10c.

2565. Striped and Blotched.

An excellent strain of the small-flowering type. Fine for massing. All colors. 1/4 oz., 25c; pkt., 10c.

2570. Giants of California. The "Giants of California" bear gigantic flowers often five or more inches in diameter, of an astonishing variety of colors. They embrace every conceivable shade of crimson, pink, lavender, yellow, black, pure white, etc. One of the chief points of excellence is the deep throat and diversity of veining in the throat. Many of the flowers have a clear yellow throat, while others have a pure velvety black one, so deep that it seems to show no veining; many are deeply lined and netted on a white, pink or lavender ground. Many flowers are beautifully ruffled and frilled. Our strain is unexcelled, being saved especially for our critical trade by a leading Petunia specialist. Pkt., 25c.

2572. Rosy Morn. Of compact growth covered completely with flowers one and one-half inches in diameter. The throat is silvery white, while the edge is heavily flushed with soft rosy pink. Very desirable for beds or borders. Pkt., 15c.

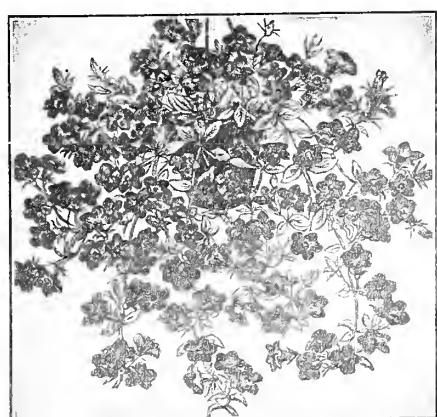
2573. Trailing Petunia. A small, but very profuse-flowering Petunia, producing 2 1/2 to 3 foot branches thickly set with fragrant flowers, 1 inch across. These are a fine shade of carmine with reddish violet throat. Especially beautiful in window boxes or hanging baskets. See illustration. Pkt., 25c.

2574. Dwarf Inimitable. "Star Petunia," compact-growing variety; flowers are cherry red with white center. Very effective in masses. Pkt., 10c;

2575. Bedding Petunias. A superb strain of elegant, large flowers remarkable for their brilliancy and variety of color. Splendid for bedding. 1/4 oz., 25c; pkt., 10c.

Culture. Sow in May when the ground is warm, in the bed or border where they are to flower. The soil should be well pulverized and the seeds covered to a depth of 4 times their size. Firm with a board, and thin out so that the plants will not become crowded. For early flowering sow indoors in a shallow box, or in a hotbed, and transfer to open ground when the weather becomes suitable.

The weaker Petunia seedlings should be carefully saved. With attention these small seedlings develop splendidly and frequently produce the finest double flowers.



Trailing Petunia.



Culture for Phlox. Sow out of doors, when danger from frost is over, in the bed or border where they are to flower. The soil should be well pulverized and the seed covered to a depth of about 4 times their size. Press down firmly with a board, and thin out so that the plants will not become crowded. For early flowering they should be sown indoors in a shallow box, or in a hotbed, and transferred to the open ground when the weather becomes suitable.

2650. Large Flowering Dwarf Varieties. A type combining the size of the individual flower and the head of the finest Grandifloras with the dwarf, compact growth of the dwarf sorts; altogether a perfect combination. Finest mixed colors. $\frac{1}{4}$ oz., 50c, pkt., 10c.

2655. Star Phlox. (Star of Quedlinburg.) Of dwarf habit with very pretty star-shaped flowers. A novel and beautiful variety. Mixed colors. $\frac{1}{4}$ oz., 50c, pkt., 10c.

2665. Physalis Franchetti. Japanese Winter Cherry. Fruit large, deep red in color, edible, and enclosed in balloon-shaped husks of brilliant orange red. Hardy annual; height two feet. An ornamental variety of the Ground Cherry or Strawberry Tomato. Pkt., 10c.

Culture for Physalis Franchetti. Should not be sown in the open ground before latter part of May. The best plan is to start the seeds indoors in a shallow box or in a hotbed, in a temperature of about 65 degrees. Cover the seeds to a depth of four times their size and press the surface firm with a board. Water with a fine spray. Transplant the seedlings after the second leaves form and remove to the garden when the weather is warm and settled.

Portulaca. Will grow and bloom abundantly all summer in a dry, hot location, where most other plants would soon die. The flowers are of the richest colors and make a beautiful border.

2668. Parana. This new giant-flowered type from South America produces immense, single blossoms often 3 inches across, bright ruby red in color. They are of very vigorous growth and flower profusely. Pkt., 10c.

2670. Single. Mixed Colors. $\frac{1}{4}$ oz., 20c; pkt., 5c.

2675. Double. Mixed Colors. $\frac{1}{4}$ oz., \$1.00; pkt., 15c.

Culture for Portulaca. Sow in the open ground when danger from frost is past. Cover the seeds to a depth of four times their size and press the surface firmly with a board. Water with fine spray. Thin out so that the plants will not become crowded. For early flowering sow in hotbed or shallow boxes in the house in March, transferring to the open ground in May and June.

2637. Phacelia Campanularia. One of the earliest annuals to blossom; height nine inches; flowers bell-shaped and of a rich deep blue. The showiest annual we have. Pkt., 10c.

Culture for Phacelia Campanularia. Sow in the open ground when danger from frost is past. Cover the seeds to a depth of four times their size and press the surface firmly with a board. Water with fine spray. Thin out so that the plants will not become crowded. For early flowering sow in hotbed or shallow boxes in the house in March transferring to open ground in May and June.

Phlox Drummondii. Of all Summer-flowering annuals the varieties of Phlox Drummondii are unquestionably some of the most brilliant and satisfactory. Seed may be sown in the open ground any time after danger of frost is past, and in a few weeks the beds or borders are aglow with their brilliant coloring and remain so until cut down by frost. For early flowering they should be started indoors or in a hotbed. For Perennial Phlox Roots see page 92.

2640. Mixed Colors. $\frac{1}{4}$ oz., 25c; pkt., 5c.

Grandiflora Varieties. Large Flowering. The following six colors are considered the brightest, best and most distinct for bedding;

2642. Pure White	.....	Pkt., 10c
2643. Shell Pink	.....	" 10c
2644. Deep Rose	.....	" 10c
2645. Crimson Beauty	.....	" 10c
2646. Royal Purple	.....	" 10c
2647. Blood Red	.....	" 10c

2648. Grandiflora, Choicest Mixed. $\frac{1}{4}$ oz., 35c; pkt., 10c.

Phlox Manual. By C. S. Harrison. Price, 25c, postpaid.



POPPIES

In both color and form, Shirley Poppies are the daintiest, most exquisite blossoms imaginable. Poised on their long stems like graceful birds they appear to be hovering but a moment before darting away. Their silken gossamer petals vary in shade from scarlet and maroon to pale rose and white.

The blossoming period lasts but a few weeks, which necessitates repeated sowings at intervals for constant bloom. They should be sown as early in the Spring as possible, where the plants are to remain, as they do not bear transplanting. When planted with Bachelor's Buttons they make a charming combination bed. As cut flowers they are short lived but if their stems be dipped in boiling water right after gathering, they will last much longer.

Single Annual Poppies.

2680. **Northrup, King & Co.'s Sterling Single Mixture.** Embraces all the leading best single varieties. As is always the case with our Sterling Mixture, it has been our aim to include in this mixture every good variety. Oz., 35c; pkt., 10c.

2685. **Poppy, Shirley.** The flowers are large, exceedingly graceful and elegant; the colors are pure, soft and varied and range from bluish-white, rose, delicate pink and carmine, through innumerable tints, to bright sparkling crimson. Oz., 50c; pkt., 10c.

2687. **Danebrog, or Danish Cross.** Very showy variety, producing large single flowers of brilliant scarlet, with a silvery-white spot on each petal, thus forming a white cross. Oz., 25c; pkt., 5c.

2690. **Umbrosum.** Richest vermillion, with a deep, shining black spot on each petal. Oz., 25c; pkt., 5c.

2692. **English Scarlet.** The common field Poppy of Great Britain; dazzling scarlet. Oz., 25c; pkt., 5c.

2694. **Flag of Truce.** Satiny-white flowers 3 to 4 inches across. Oz., 25c; pkt., 5c.

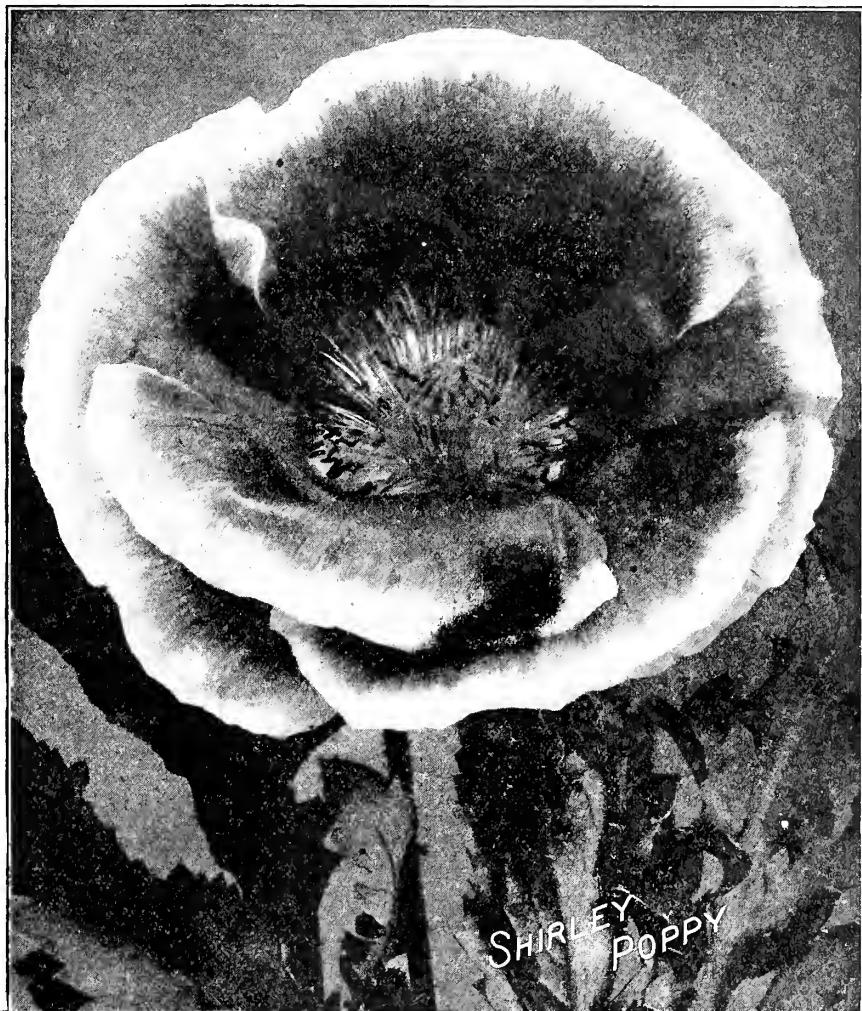
2696. **Tulip Poppy.** A magnificent species from Armenia. The plants grow about 14 inches high and produce from 50 to 60 large tulip-like flowers of dazzling scarlet. $\frac{1}{4}$ oz., 25c; pkt., 10c.

2698. **Fire Dragon.** Very showy and free-flowering, producing flowers of brilliant deep scarlet with black spots, margined white. 2 to $2\frac{1}{2}$ feet. Oz., 50c; pkt., 10c.

2700. **Single Mixed.** Annual sorts. Oz., 20c; pkt., 5c.

Double Annual Poppies.

Beautiful fringed blossoms on strong, vigorous stems. Double Poppies make splendid cut-flowers. Striped, tinted and shaded, they resemble big, lacey rosettes. The flowering period of Double Poppies is very much



GROUP OF DOUBLE POPPIES

longer than that of the Single Shirleys and the plants need more space to develop to perfection.

Culture. Sow out of doors when danger from frost is over, in the bed or border where they are to flower. For constant bloom sow at intervals of two weeks. The seed bed should be especially well prepared—raked and pulverized until very fine and then well firmed. Mix the seed with an equal quantity of fine soil, to facilitate even sowing. Sow on the surface and press down firmly with a board. When the seedlings develop the irsecong leaves thin out to prevent crowding. They should stand at least 4 inches apart.

Use tobacco spray for aphids, see page 149.

2705. **Northrup, King & Co.'s Sterling Double Mixture.** Includes all of

the best double varieties of large-flowering Poppies of all colors, also many varied tints and combinations of color. Many of the blossoms are 6 to 7 inches in diameter and as double as Peonies, 30 to 36 inches high. They are fine for cut-flowers or garden display. Oz., 35c, pkt., 10c.

2707. **American Flag.** Beautiful variety; flowers very large and double, snow white, bordered with scarlet. Oz., 25c; pkt., 5c.

2710. **Fairy Blush.** Very double flowers of pure white, elegantly fringed and tipped with rose. Oz., 25c; pkt., 5c.

2712. **White Swan.** Immense double flowers; beautifully fringed and of purest white. Oz., 25c, pkt., 5c.

2714. **"Mikado" (The Striped Japanese Poppy.)** This beautiful Poppy is very distinct in character and color. The flowers are brilliant scarlet and white with elegantly curved petals, like a Japanese Chrysanthemum. Oz., 25c; pkt., 5c.

2716. **The Golden Poppy.** A new and novel variety, with golden-yellow foliage and double flowers in various red shades; 1 ft. Pkt., 15c.

2718. **Carnation Flowered.** Splendid, double, fringed flowers. Mixed colors. Oz., 25c; pkt., 5c.

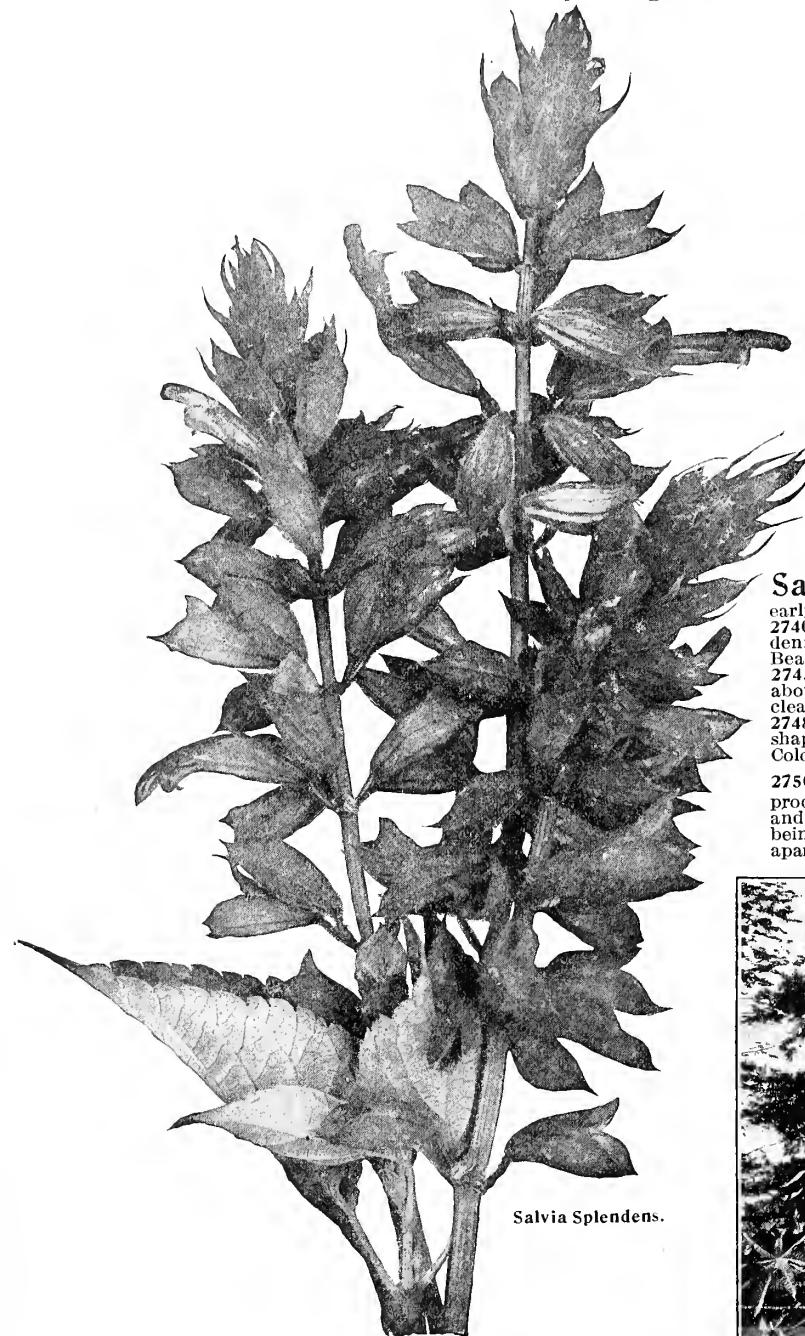
2720. **Peony Flowered.** Large, showy, double, globular flowers, resembling a double Peony. Mixed colors. Oz., 25c; pkt., 5c.

2722. **Scarlet Featherball.** Very beautiful with fringed-edged petals like big balls of slashed tissue paper or feathers. Double, brilliant red flowers. Pkt., 10c.

Perennial Poppies. See page 81

California Poppy or Eschscholtzia. See page 67.

All flower seeds are sent prepaid.



Salvia Splendens.

Stocks. Gilliflower. This Stock is one of the most popular annuals, either for bedding or pot culture; for brilliancy and diversity of color, fragrance, profusion and duration of bloom it is unsurpassed. Start the seeds in February and March, and as soon as the plants have their second pair of leaves, prick out into shallow boxes and in about four weeks the plants will be ready to pot; from which they should be transferred to the open ground in May or June.

Large Flowering Ten-Weeks Stock. This is the leading class for bedding out or Summer blooming.

2755. Blood Red	Pkt., 10c
2760. Bright Pink	Pkt., 10c
2765. Purple	Pkt., 10c
2770. Pure White	Pkt., 10c
2775. Light Blue	Pkt., 10c
2780. Canary Yellow	Pkt., 10c
2785. Mixed Colors	1/4 oz., 50c; pkt., 5c
2790. Collection, 6 separate colors, one packet of each for	50c

2795. Thunbergia. Black Eyed Susan.

Beautiful, rapid-growing annual climber, preferring a warm, sunny situation; used extensively in hanging baskets, vases, low fences, etc.; very pretty flowers in buff, white, orange, etc., with dark eyes, mixed colors; 4 feet. 1/4 oz., 25c, pkt., 5c.

By sowing seed in the hotbed in March or April it is possible to raise strong plants for bedding in May. This method is strongly recommended for Asters, Antirrhinum, Balsam, Candytuft, Castor Bean, Dusty Miller, Heliotrope, Lobelia, Petunias, Salvia, Verbenas and Vincas.

2723. Pyrethrum Aureum. Golden Feather. Very popular plant for edging, carpet-bedding, etc. Pkt., 10c.

Ricinus. Castor Oil Bean. Ornamental plants of stately growth and picturesque foliage, with brilliant colored fruit, producing a sub-tropical effect; fine for lawns, massing or center plants for beds.

Culture. Sow out of doors, when danger from frost is over, in the bed or border where they are to flower. The soil should be well pulverized and the seed covered to a depth of about four times their size. Press down firmly with a board, and thin out so that the plants will not become crowded. For early flowering they should be started indoors in a shallow box, or in a hotbed.

2725. Borboniensis. Very large and beautiful, green foliage; 15 ft. Oz., 20c; pkt., 5c.

2726. Gibsoni. Dwarf branching habit, deep red foliage; 5 feet. Oz., 20c; pkt., 5c.

2728. Cambodgensis. The main stem and leaf stalks are shining ebony, leaves large, regularly divided and richly colored; 5 feet. Oz., 25c; pkt., 5c.

2729. Zanzibariensis. Have light and dark green leaves and some of coppery bronze changing to dark green with reddish ribs. Oz., 25c; pkt., 5c.

2730. Mixed. All sorts, best varieties. Oz., 20c; pkt., 5c.

Salpiglossis. Painted Tongue. Very beautiful hardy annual plants, flowering freely from July to early Autumn. Rich soil should be provided, with plenty of space for plants to develop.

2732. Large Flowering Mixed. The exquisite beauty of the flowers, with their rare combination of color, is a revelation to all who may see them for the first time. A splendid variety of color, flowers of large size. 1/4 oz., 35c; pkt., 10c.

2735. Emperor. This new variety forms only one leading stem, and bears on its summit a veritable bouquet of the most beautiful flowers, each one richly veined with gold, and much larger than the finest of the "Grandiflora" type. 1/4 oz., 50c; pkt., 10c.

Salvia. Scarlet Sage. One of the handsomest flowering plants. we have for garden decoration. For early flowering, plants should be started indoors in a shallow box, or in a hotbed.

2740. Salvia Splendens. Excellent for filling large beds or borders in the garden; continuously in bloom from early August until the first killing frost. Beautiful scarlet; large flowering. 2 1/2 ft. high. 1/4 oz., 50c; pkt., 10c.

2745. Clara Bedman. (Bonfire.) The plants form handsome, globular bushes about two feet in diameter. The dazzling scarlet spikes grow upright and stand clear above the foliage, enveloping the plant. 1/4 oz., 75c; pkt., 10c.

2748. Ostrich Plume. Splendid new variety. It resembles Salvia Splendens in shape, but is covered with gorgeous plumes, each of which is a bouquet in itself. Color is brightest scarlet. Pkt., 25c.

2750. Scabiosa. Mourning Bride. One of our handsomest summer border plants, producing in great profusion very double flowers in a variety of shades and colors. Excellent subjects for cut flowers, lasting nearly a week after being cut. Sow the seeds in May and thin out the young plants to 6 inches apart. Mixed, oz., 50c; 1/4 oz., 20c; pkt., 5c.



Ricinus. Castor Oil Bean.

VERBENA

Culture. Should not be sown in the open ground before latter part of May. The best plan is to start the seeds indoors in a shallow box or in a hotbed, in a temperature of about 65 degrees. Cover the seeds to a depth four times their size and press the surface firm with a board. Water with a fine spray. Transplant the seedlings after the second leaves form and remove to the garden when the weather is warm and settled.

Northrup, King & Co.'s Mammoth Verbena.

The largest known, a single flower often being as large as a twenty-five cent piece. The beauty of this plant is well known and scarcely needs comment. For garden beds or effective massing the Verbena is unequalled. They bloom profusely the first year from seed, the flowers lasting until late in the Autumn. Thrives best in a sweet turf loam and should be given space to trail over the ground. Verbenas should not be grown in the same place two years in succession.

2798. Northrup, King & Co.'s Mammoth Mixed. All colors. $\frac{1}{4}$ oz., 50c; pkt., 10c.

2800. Mammoth Aurora Borealis. Intense carmine-scarlet. Pkt., 25c.

2802. Mammoth Pink Pkt., 10c 2811. Mammoth Scarlet Pkt., 10c

2804. Mammoth Purple " 10c 2812. Mammoth Striped " 10c

2806. Mammoth White " 10c 2814. Collection of Mammoth Verbenas, 6 colors for 50c

2807. Mammoth Blue " 10c 2815. Verbena Fine Mixed. All colors of the

2808. Mammoth Yellow " 10c older sorts, $\frac{1}{4}$ oz., 25c; pkt., 5c.

2809. Mammoth Auricula Eyed " 10c

2810. Mammoth Blue, White Eye " 10c

Verbena Venosa. A strong grower, violet flowers. An excellent subject for massing; used very effectively in Loring and other parks in Minneapolis; flowers all Summer. Pkt., 10c

2816. Verbena, Lemon Scented. This fragrant plant is easily grown from seed and succeeds well anywhere. Have a good bed of it so that you can cut its fragrant foliage and flowers to make up with bouquets. Pkt., 5c.

VINCA. Madagascar Periwinkle, or Old Maid.

Ornamental free-blooming plants; splendid for bedding; dark, glossy foliage and handsome pink and white flowers. It is best to start seed early indoors or in a hotbed. Seed germinates slowly. Plants can be potted in the Autumn and kept in bloom all Winter.

2830. Alba. Pure white Pkt., 10c 2831. Rosea. Rose, dark eye Pkt., 10c

2832. Mixed, all colors $\frac{1}{4}$ oz., 35c; pkt., 10c

ZINNIA. Youth and Old Age.

One of the most brilliant and showy of annuals, which has long been a general favorite. They come in flower early in the Summer and keep on blooming until hard frost; require little attention and succeed almost anywhere. For perfection of blossom start the seeds in March and prick out once or twice before transferring to the open border in May or June. Provide the plants with plenty of room, at least 18 inches apart each way, and they soon completely cover the ground.

Culture. Should not be sown in the open ground before latter part of May. The best plan is to start the seeds indoors in a shallow box or in a hotbed, in a temperature of about 65 degrees. Cover the seeds to a depth of four times their size and press the surface firm with a board. Water with a fine spray. Transplant the seedlings after the second leaves form and remove to the garden when the weather is warm and settled.

Northrup, King & Co.'s Double Improved Large Flowering Zinnia.

This is considered the best type for general use; forming bushy compact plants not over 2 feet high and bearing flowers as large as the tallest varieties. In our special imported strains of Double Zinnias are found the most perfect and beautiful types which have yet been produced by the flower specialists of Europe and America. We are confident that they will please all who grow them.

Pkt.

2817. Double White 5c

2818. Double Orange 5c

2819. Double Salmon Rose 5c

2820. Double Scarlet 5c

2822. Double Canary 5c

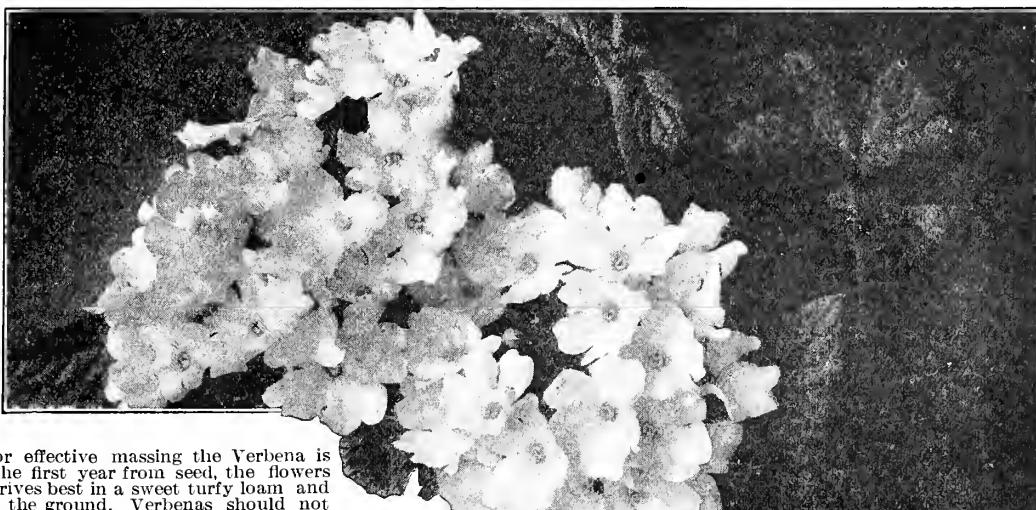
2824. Double Jacqueminot 5c

2826. Collection, 6 separate colors for 25c

2828. Double Mixed, all colors, $\frac{1}{4}$ oz., 20c; pkt., 5c.

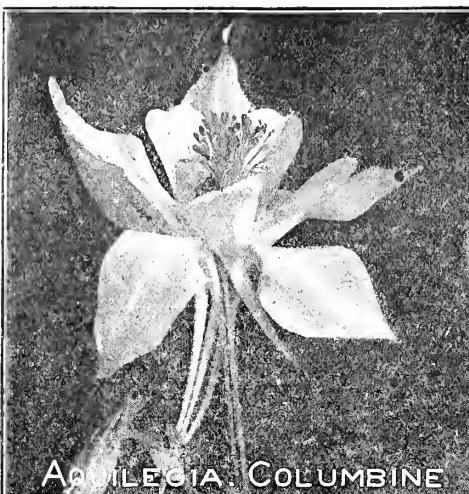
Zinnia. In separate colors, $\frac{1}{4}$ oz., 25c.

Home Floriculture. By E. E. Rexford. Practical guide on plants for house and garden. Price, \$1.00, (postpaid, \$1.15).

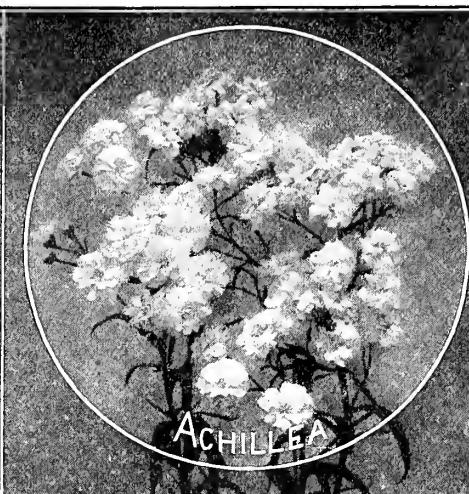
**2834. Annual Sweet William.**

William. One of the finest subjects for the garden and in any position. This is a cross between an Annual Pink and a Sweet William. A free and continuous bloomer; color an intense, velvety crimson-scarlet; blooms the first year from seed. $\frac{1}{4}$ oz., 50c; pkt., 10c.

All flower and vegetable seeds sent prepaid except where otherwise noted.



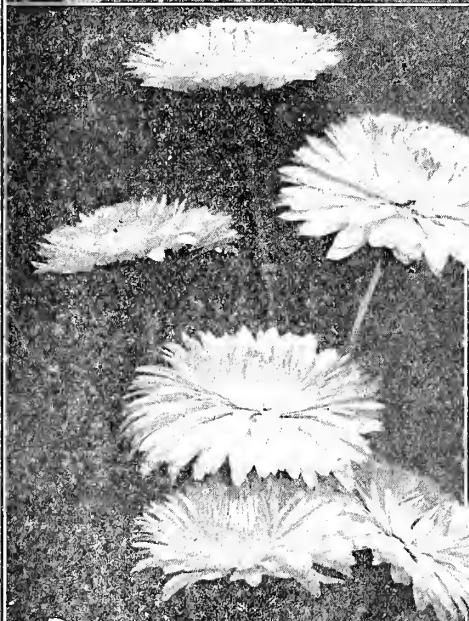
AQUILEGIA COLUMBINE



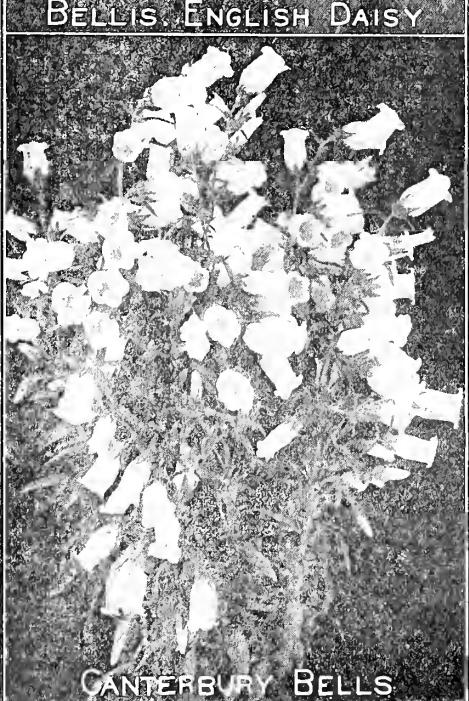
ACHILLEA



CAMPANULA PERSICIFOLIA



BELLIS ENGLISH DAISY



CANTERBURY BELLS

HARDY PERENNIAL FLOWER SEEDS

Culture. Everyone likes perennials because they are permanent—once established they increase in size and beauty. Many sorts are raised from seed, usually blooming the year after sowing. The seed bed must be well drained, fine and firm. If the soil is at all heavy cover with one inch of sand. The seed may be planted from June 10th to early July. After soaking the seed 24 hours, sow the fine sorts in rows, 3 inches apart, on the surface of sand or well sifted soil, and press down with a board. Large seeds may be covered to twice their thickness. The bed must be kept shaded constantly with a screen made as follows: nail common laths 2 inches apart on end strips. Place this screen over the bed on 4 bricks set endwise. Water as required; when seedlings have two pairs of leaves, transplant into rows a few inches apart each way, and later when they begin to crowd transplant a second time. This involves extra work but is necessary to raise sturdy plants. Keep them shaded with the screens all Summer. In September, if well developed, they may be placed in their permanent locations where they are to blossom the following year, or left in the seed beds for early Spring transplanting. After the ground freezes hard, cover with evergreen or other branches and a few inches of straw or leaves loosely piled on top. In late March, remove one-half the top mulch and loosen up the rest, to admit air. Take off the remainder gradually, as the season advances.

For Perennial Plants—see pages 83-89.

3200. **Abronia. Sand Verbena.** Trailing plants and sweet scented, rosy-lilac flowers borne in clusters. Suited for rockeries. Pkt., 10c. One of the best hardy white perennials.

3202. **Achillea. Double White Yarrow.** Grows about two feet high and from Spring until frost is covered with heads of purest white, double flowers. Pkt., 25c.

3204. **Adonis vernalis. Spring Adonis.** One of the most attractive ever-blooming plants. Flowers bright yellow. Pkt., 15c.

3206. **Agrostemma. Rose of Heaven.** An attractive free-blooming, hardy perennial, of easy culture, producing bright colored flowers on long, slender stems. Blooms first season, fine for cutting, 2 ft. Pkt., 5c.

3208. **Alyssum Saxatile Compactum.** Has handsome masses of bright yellow flowers. Fine for borders. $\frac{1}{4}$ oz., 30c; pkt., 10c.

3209. **Anchusa, Italian Dropmore Variety.** Blue, large, for-get-me-not-like flowers. Very fine for the back of the perennial border or for a screen. 5 feet high. $\frac{1}{4}$ oz., 50c; pkt., 15c.

Anemone. Windflower. A very pleasing, hardy perennial, producing large flowers; few plants compare with them in beauty; fine for bouquets. Especially good for rock work and sheltered banks. They need extra good Winter protection.

3210. **Coronaria, Mixed Colors. Poppy Anemone.** Pkt., 5c.

3211. **St. Brigid.** A beautiful selection of the above, comprising semi-double and double flowers in a wonderful array of colors. Pkt., 15c.

3212. **Japonica Alba. The Bride.** Pure white. Pkt., 15c.

3214. **Anthemis tinctoria. Hardy Marguerite.** A native of England; grows about a foot high, bearing in profusion, daisy-shaped, yellow flowers which come in July and August. Pkt., 10c.

Aquilegia. Columbine. Charming hardy perennial plants growing from one to three feet high, bearing in countless numbers through May and June their exquisite blossoms of clear, blue, white, rose, yellow, purple, striped, etc. For planting in permanent borders or naturalizing along the edges of woods or shrubbery they are unsurpassed.

3213. **Northrup, King & Co.'s Single Long Spurred Hybrids.** All colors mixed. Pkt., 15c.

3215. **Northrup, King & Co.'s Double.** All colors mixed. Pkt., 10c.

3216. **A. coerulea alba.** Beautiful white flowers. Pkt., 10c.

3217. **A. coerulea.** Blue flowers from the Rocky Mountains. Pkt., 10c.

3218. **A. chrysanthia. Golden Spurred Columbine.** Vigorous and bushy in habit. 2½ ft. Pkt., 10c.

3224. **A. Jaetschauii.** Yellow blossoms, with carmine spurs. Pkt., 10c.

3219. **A. oxysepalia.** One of the most charming of all the Columbines. It is a native of Siberia; very hardy and seems to be more permanent than many species. Pkt., 15c.

3220. **A. Sibirica.** A fine purple-flowered species. One of the best. Pkt., 10c.

3229. **A. Skinneri.** Beautiful orange scarlet centre with yellowish green border. Pkt., 10c.

3221. **A. vulgaris.** Perfectly hardy and of easy culture. Double mixed colors. $\frac{1}{4}$ oz., 25c; pkt., 5c.

3222. **Arabis alpina.** A low, early blooming perennial with white, fragrant flowers. For rock work, borders or covering steep banks. Pkt., 10c.

3223. **Armeria plantaginea. Sea Pink. Thrift.** Flowers in close, round heads; color light pink or white. They are shaped like white clover heads, fine for bouquets. Pkt., 10c.

3207. **Asperula odorata. Sweet Woodruff. Waldmeister.** Old fashioned favorite, grown for its fragrant leaves and stems, used for putting among linens and also for flavoring May wine. Pkt., 15c.

Bellis. English Daisy. Daisies are easily raised from Spring sown seed, and come into flower in a very short time. They thrive best in cool, shady places, but do well in almost any soil. They are very pretty when in bloom and deserve to be grown more universally than they are. Admirably adapted for edgings, borders, and low beds, 6 to 8 ins.

3225. **Longfellow.** Beautiful deep pink, double. Pkt., 15c.

3226. **Snowball.** Best pure white Daisy, on long stem. Pkt., 15c.

3227. **Double Mixed.** Embracing all colors. Pkt., 15c.

3228. **Callirhoe involucrata. Poppy Mallow.** A trailing perennial of the Malva family, bearing a profusion of large, violet-crimson poppy-shaped flowers. Hardy and easy of culture. Pkt., 10c.

HOLLYHOCKS.

There is a revival of the old-fashioned flowers and Hollyhocks are among the best of the old garden favorites. Always a stately and majestic plant, the improvements in them have been so great that one would scarcely recognize in the old single Hollyhock, the parent of the magnificent and truly gorgeous flower of today.

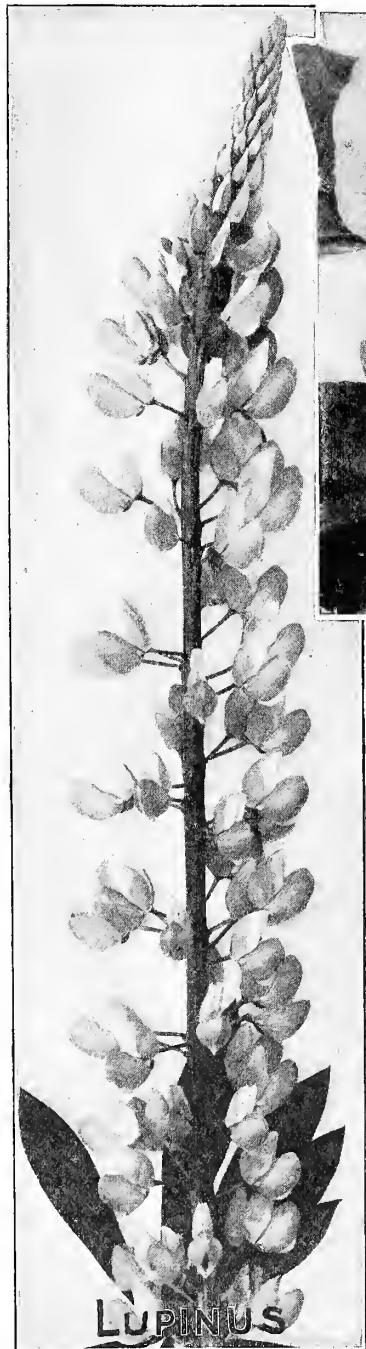
The most marked improvement is found in the Chater's and Allegheny strains. These are beautiful beyond description.

The Chater's produce for the most part, flowers which are densely double, although occasionally some single blossoms are seen among them. The colors are innumerable, ranging from pure white to darkest maroon, some are bright and gay, others of the softest and most delicate shades and tints. The stalks average about four feet in height but many are 6 and even 8 ft. high. These stalks are densely covered with blossoms as beautiful in texture and appearance as the Rose.

The Allegheny is of quite recent introduction. It grows very tall, and the flowers, though single, are of wonderful beauty and in great variety of color. The Chater's are beautiful beyond description, but the Allegheny is thought by many to be even still more beautiful than the Chater's. Hollyhocks form a capital background for a border of hardy perennials of lower growth, and are also very effective when planted in groups. Once established, as they easily are from seed, they reappear in their place each year. Hollyhocks thrive best in a rich, deep, well drained soil. As usually treated, the Hollyhock is a biennial, but if planted where the water will not settle around the crown in the Winter they become very satisfactory perennials. Follow cultural directions at top of page 78.

3325. Single Hollyhocks.

Many prefer the single-flowering Hollyhocks. They are usually of freer growth than the doubles and present a very handsome appearance. Mixed, $\frac{1}{4}$ oz., 30c; pkt., 10c.



New Giant Flowering Marshmallows.

to 4 buds at the base of each leaf. The buds develop into flowers now, the smaller ones, until all have become a beautiful mass of bloom. The colors vary from the palest shrimp pink to deep red. Although the flowers are single they are very beautiful and must be seen to be appreciated. The plants are of strong growth, sending up spikes 6 to 7 feet high. Mixed colors, pkt., 10c.

Chater's Double Hollyhocks.

3305. Double White..... $\frac{1}{4}$ oz., 40c; pkt., 10c.
 3306. Yellow..... $\frac{1}{4}$ oz., 40c; pkt., 10c.
 3307. Salmon Rose..... $\frac{1}{4}$ oz., 40c; pkt., 10c.
 3315. Chater's Selected Strain. Extra Choice Double Mixed. Oz., \$1.00; $\frac{1}{4}$ oz., 30c; pkt., 10c.

3308. Bright Red..... $\frac{1}{4}$ oz., 40c; pkt., 10c.
 3309. Bright Pink..... $\frac{1}{4}$ oz., 40c; pkt., 10c.
 3310. Maroon..... $\frac{1}{4}$ oz., 40c; pkt., 10c.

3296. Gypsophila Paniculata. Baby's Breath. Bridal Veil. The plants are small, starlike and borne in feathery sprays, which are highly esteemed for cut flowers as they lend a most graceful effect when combined in bouquets. This pleasing flower should be in every garden, for it is almost indispensable in the arrangement of flowers, either in vase or bouquet work. See illustration on page 79. $\frac{1}{4}$ oz., 25c; pkt., 5c.

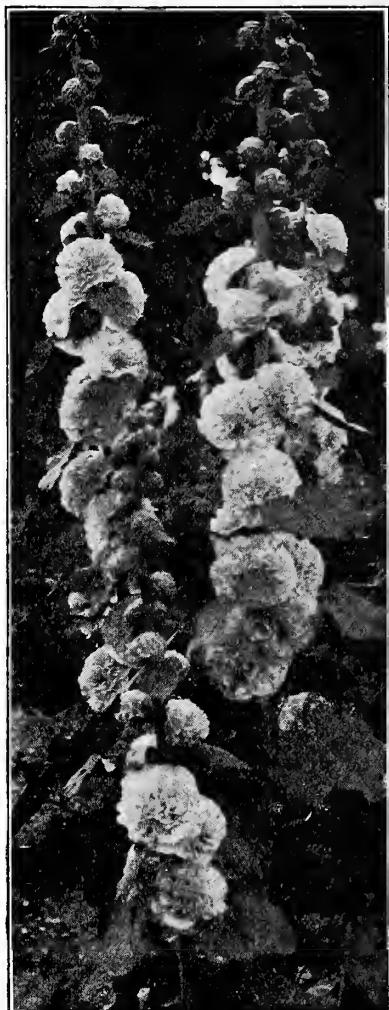
3298. Helenium autumnale. A showy native perennial growing 4 to 6 feet high which forms a good sized bush covered in Autumn with single bright yellow flowers giving it much the appearance of the pompon Chrysanthemum. Very valuable for use among shrubbery, lasting in bloom a long while and at its best when most plants are through blossoming. Pkt., 10c.

3300. Hesperis Matronalis. Sweet Rocket. Old-fashioned garden plant, and among the most desirable of hardy flowers; also known as Dame's Rocket and Dame's Violet; grows from 2 to 3 feet high, and bears spikes of showy white, lilac and purple fragrant flowers. Excellent for naturalizing among shrubbery or for planting in a permanent border; mixed colors. $\frac{1}{4}$ oz., 15c; pkt., 5c.

3303. Hibiscus. New Giant Flowering Marshmallow. Wonderfully improved form of Marshmallow, in which flowers of great size—frequently ten to twelve inches in diameter—have been developed. The colorings comprise rich, deep red, soft pink and pure white. Plants grow 5 to 8 feet high. Blossom from July until late Autumn. Pkt., 15c.

Hibiscus. Marsh Mallow. Hibiscus are from 6 to 9 inches in diameter, their color is a rich, deep cream with a velvety, maroon center. Plants grow from 3 to 5 feet high, and bear from 10 to 20 of their gigantic, bell-shaped flowers at one time. They commence to bloom when the plants are quite young and continue until late in the Fall. Pkt., 10c.

3302. H. Crimson Eye. Flowers are pure white, with a rich crimson eye. The flowers are very large, often measuring 7 inches in diameter. It blooms from seed the first year sown in the open ground, lasts year after year. Pkt., 10c.



Double Hollyhocks.

3320. Allegheny Hollyhocks.

The flowers are of mammoth size and are wonderfully formed of loosely arranged fringed petals which resemble the finest China silk and have none of the formality of the ordinary type. This variety is perpetual bloomer and has from 2

Honesty. Satin Flower. Early flowering, hardy biennial, with purple or white flowers, and flat round seed-vessels of silvery appearance. Rather curious, but beautiful, and very useful, as house ornaments, 2 ft. 3327. Purple, Pkt., 10c. 3331. White, Pkt., 10c. 3328. Mixed, Pkt., 10c.

3329. Iberis sempervirens. Perennial Candytuft. Very desirable plants growing 10 to 15 inches high with glossy, dark, evergreen foliage completely hidden with dense flat heads of white flowers in early Spring. Pkt., 15c.

3330. Lathyrus. Everlasting or Hardy Sweet Pea. Showy, free flowering, hardy perennial climber, valuable for covering old stumps, fences, etc., continually in bloom. Good for cut flowers. They require a rich, deep soil. Pkt., 10c.

3332. Lavandula Vera. Lavender. The delightfully fragrant old fashioned plant grown so much for perfuming linens, for which purpose the dried flowers are used. Hardy perennial about 18 inches high. $\frac{1}{4}$ oz., 25c; pkt., 10c.

3335. Liatris. Blazing Star. Very showy and attractive plants with long spikes of purple and rosy purple flowers from July to Sept. Mixed varieties. Pkt., 10c.

3337. Linaria. Kenilworth Ivy. Lavender and purple. A charming, neat, hardy, trailing plant. For baskets, vases, pots and rock-work. Pkt., 10c.

Linum perenne. A pretty plant for the border, with light graceful foliage and large flowers produced through the entire Summer. Flowers delicate light blue and pure white; similar to miniature single Poppies, 12 to 15 inches high. 3339. Blue..... Pkt., 10c. 3341. White..... Pkt., 10c.

Lobelia. The following dwarfs and trailing varieties of this popular and beautiful, flowering plant will be found most desirable for pot culture, edgings, hanging baskets, etc., blooming profusely from June to November. The hardy perennial varieties are among the most attractive of our garden favorites, producing handsome flower spikes.

3342. *Crystal Palace Compacta.* Rich deep blue; dark foliage; the finest dark blue for bedding. $\frac{1}{8}$ oz., 50c; pkt., 10c.

3343. *Mixed Compacta Varieties.* All colors. $\frac{1}{8}$ oz., 30c; pkt., 10c.

3344. *Royal Purple.* Pkt., 15c.

Lupinus polyphyllus. Lupine. This will be found a great acquisition to any garden. It forms dense bushes about 4 feet high, of elegant spikes completely clothed to the ground with snowy-white and deepest sea-blue flowers. See illustration page 80. Delicately fragrant.

3348. Rose. Very fine. Pkt., 15c. 3352. White..... Pkt., 10c.

3346. Blue..... Pkt., 10c. 3345. Mixed.... Oz., 35c; pkt., 10c.

3347. Lychnis. Rose Campion. Handsome plants of easy culture, growing in any rich garden soil; for massing in beds and borders; blooms the first year if sown early. Flowers white, scarlet, orange, etc. Mixed colors, pkt., 10c.

3349. Lythrum roseum superbum. Pretty, hardy perennial; grows three feet high and produces spikes of rosy flowers from July to September. Pkt., 10c.

Mimulus. Showy, profuse-flowering plants, comprising numerous varieties with white, sulphur and yellow grounds, spotted with crimson, scarlet and pink, fine for green-house or moist, shady situations; half hardy perennials, blooming the first year from seed if sown early; 1 ft.

3351. *Tigrinus. MONKEY FLOWER.* Fine mixed, spotted varieties. Pkt., 10c.

3353. *Moschatus. MUSK PLANT.* Fine for hanging baskets, etc.; small yellow flowers. Fragrant foliage. Pkt., 10c.

3355. Monarda. Oswego Tea or Bee Balm. Fine hardy plants of free growth, about 3 feet high, with aromatic foliage; bright rose and crimson-scarlet flowers in July and August. Mixed, pkt., 15c.



Coreopsis
lanceolata grandiflora

3362. Coreopsis lanceolata grandiflora. This is one of perennials for cut flowers. Beginning to bloom in June, it continues to display a profusion of golden blossoms all through the hot weather, uplifted on graceful stems well above the foliage. And how they do last! Often a week or more if cut as soon as they open. We cannot recommend Coreopsis too highly, so would suggest that you try a few plants this Summer and sow seed now for a big bed next year. For culture see page 78, for plants see page 83. $\frac{1}{4}$ oz., 25c; pkt., 10c.

3357. Musa Ensete. Abyssinia Banana. A tender perennial, ornamental foliage plant, growing to a height of 10 to 20 feet. Very effective when planted singly or grouped with other foliage plants. Pkt., 5 seeds, 15c; 25 seeds, 50c.

Myosotis. Forget-Me-Not. Half-hardy perennial, which flowers the first year from seed if sown early. Will bring forth lovely blossoms throughout the whole Summer and Fall. Flowers are borne on long, stiff stems and of the most exquisite sky-blue, with a delicate white center. They succeed best with moisture in a somewhat shaded position.

3359. Blue. Pkt., 10c. 3361. White. Pkt., 10c.

3360. *Eliza Fonvobert.* Large flowering. Pkt., 10c.

3363. Mixed. All varieties, oz., 25c; pkt., 5c;

3365. Pentstemon. Beard Tongue. Attractive plants, much used in the hardy border. The bushes are pyramidal, 2 to 3 feet high, with erect branches thickly set with flowers $\frac{1}{2}$ inches long, varying in all shades from rosy-white to purple with white or veined throats. Mixed colors, pkt., 10c.

3367. Physostegia. False Dragon Head. These handsome plants flower from July until frost, growing 3 to 4 feet high and bear broad, dense spikes of delicate pink tubular flowers not unlike a giant Heather. Pkt., 10c.

Platycodon. Japanese Bell-Flower. A member of the Campanula family, with handsome, branching spikes 2 to 4 feet high. Platycodon is considered by many the best bell flower. The illustration, page 82, shows one of the blooms with which the whole spike is furnished. 3369. *Grandiflorum.* Tall, deep-blue. $\frac{1}{4}$ oz., 25c; pkt., 10c.

3370. *Mariesi.* Dwarf, deep-blue. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Perennial Poppies. These hardy varieties are very beautiful, blooming from June to frost.

3371. *Iceland Poppy.* Similar to the annual Shirley Poppy but in addition to the white, red and pink shades of the latter, the Iceland Poppy is often a fine yellow or orange color. $\frac{1}{4}$ oz., 30c; pkt., 10c.

3373. *Oriental Poppy.* One of the most gorgeous of all perennials, producing in June and July its enormous blossoms, often 6 inches in diameter. The colors range from soft blush and rose to flaming scarlet and richest maroon. The flower stems are long and heavy, bending gracefully under the weight of the blossoms. The culture is simple if the directions at the top of page 78 are followed. The plants are at their best when about 3 years old. Often one specimen will show 10 or 15 blooms. All colors mixed. $\frac{1}{4}$ oz., 50c; pkt., 15c.

3374. *Princess Victoria Louise. Salmon Queen.* An Oriental Poppy of an exquisite shade of salmon pink; fine for cutting or for a border plant. Pkt., 25c.

3375. *Fringed Alpine.* Will flower first season if sown early. Flowers are white, rose, salmon or orange. Pkt., 10c.

3376. New White Oriental Poppy. A striking novelty, and the most distinct break that has yet been made in Oriental Poppies, it being a pure satiny white, with a bold crimson blotch at the base of each petal. It is unquestionably the most important addition to the list of new hardy perennial plants this season. Pkt., 25c.

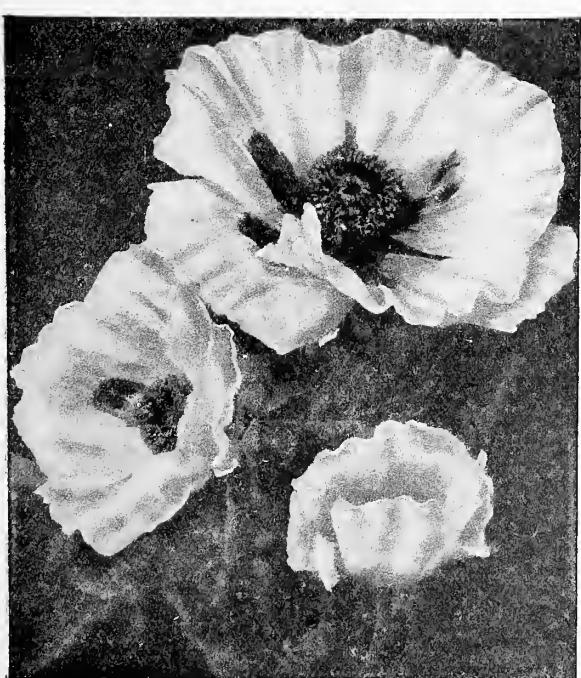
Annual Poppies. See page 75.

Polemonium. Jacob's Ladder. Highly ornamental perennial; foliage deeply cut; flowers in clusters of blue and white.

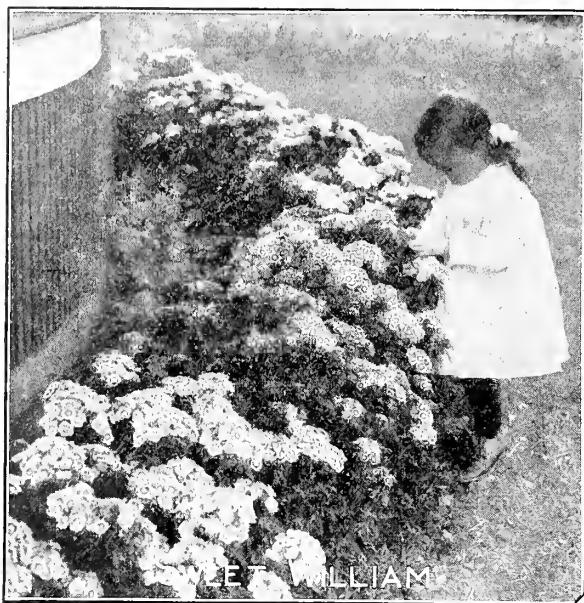
3382. Deep Blue, pkt., 10c.

3378. Pure White, pkt., 10c.

3377. Polygonum compactum. Knotweed. Excellent hardy perennials of dwarf habit, forming bushes 12 to 15 inches high, which are completely covered with a mass of foamy white flowers throughout the Fall. Pkt., 15c.



New White Oriental Poppy.



3400. **Stokesia Cyanea. Cornflower Aster.** It grows from 18 to 24 inches high and bears freely, from July to October handsome, blue, aster-like blossoms, measuring 4 to 5 inches across. It succeeds well in an open, sunny location. It is also fine for the hardy border and for massing. Pkt., 10c.

Sunflower, Helianthus. Seeds sown early will produce flowering plants the first year. Hardy perennial Sunflowers are fine subjects for the border.

3402. **Maximiliana.** Flowers single, clear yellow, with several rows of large ray petals and full center. Blossoms late in the Autumn. Height, 6 feet. Pkt., 10c.

3404. **Mollis.** Rich, bright yellow flowers with silvery white foliage. Height, 6 feet. Pkt., 10c.

3406. **Multiflorus fl. pl.** Dwarf double yellow like an Aster; blooming in August. Pkt., 10c.

Sweet William. Dianthus Barbatus.

A beautiful, free-blooming, hardy perennial producing a splendid effect in beds and borders with rich and varied flowers. The demand for separate colors has induced us to offer several sorts.

3408. Single White. Pkt., 5c.

3410. Single Crimson. Pkt., 5c.

3412. Single Scarlet. Pkt., 5c.

3414. Single Velvety Black Maroon. Pkt., 5c.

3416. Red, with white eye. Pkt., 5c.

3418. Single Violet, with white eye. Pkt., 5c.

3419. Collection. One packet each of the above six colors, 25c.

3420. Single Mixed. All colors, oz., 35c. Pkt., 5c.

3424. **Tritoma. Red Hot Poker.** Although these are hardy plants, many will flower the first year if seed is sown early. They grow about 3 feet high and bear in August blazing, orange-red spikes, blooming until frost. Very effective for cut flowers. Pkt., 15c.

3425. **Verbascum Hybrids.** Ornamental plant growing 3 feet high. Long silvery foliage from which slender spikes arise, well furnished with flowers in all shades of pink and violet. Excellent for cutting or for use as a single specimen plant. Pkt., 15c.

Veronica. Speedwell. 3426. *V. Spicata.* Height, 18 inches, flowers all Summer; showy spikes of bright blue flowers. Fine for cutting. Pkt., 10c.

3428. *V. Rosea.* Bright rose-colored flowers, produced on spikes 12 to 18 inches long. Pkt., 15c.

Wallflower. Half hardy perennials bearing dainty, yellowish, red or orange flowers which have a delicious odor.

These new, early-flowering varieties may be treated as annuals, and if sown in heat during February or March, the plants will bloom freely through the Summer and Autumn. Excellent for forcing. Height 2 feet.

3434. Single Mixed. All colors. $\frac{1}{4}$ oz., 15c; pkt., 5c. 3436. Double Finest Mixed. Pkt., 10c.

Special Perennial Offers. Raise your own perennial plants from seed. It is not difficult if you follow the directions on page 78. At the slight expense for seed and labor you can obtain a fine assortment of these valuable plants which would cost many times as much to secure in any other way.

12. 10c. pkts., customer's selection, \$1.00, postpaid. 25, 10c pkts., customer's selection, \$2.00, postpaid.

3379. **Potentilla. Dark Red Cinquefoil.** This plant has just the good qualities one expects in a border plant, handsome foliage, free-blooming habit and easy culture. It grows 18 inches high, bearing from July to Autumn its brilliant dark red flowers in profusion. These blossoms are much the shape of a Buttercup. The plant is of bushy growth, throwing up each year its stiff, erect stems, in appearance resembling a low shrub more than the ordinary perennial plant. Pkt., 15c.

3386. **Primula Japonica. Japanese Primrose.** These are not so well known as they deserve; they are hardy, of free, vigorous growth, with dark green foliage, and send up in the late Spring innumerable sprays of large flowers in many colors varying from white to crimson. A moist, rich, almost boggy soil is wanted for this fine plant. Very fine for naturalizing in grove or on a hillside. Mixed colors varying from rich crimson to white. $1\frac{1}{2}$ feet in height. Pkt., 15c.

3380. **Pueraria Thunbergiana. Japanese Kudzu Vine.** The fastest growing hardy plant. Bears small racemes of rosy purple pea-shaped blossoms in August. Grows 10 feet the first year from seed. $\frac{1}{4}$ oz., 25c; pkt., 10c.

3387. **Pyrethrum hybrideum.** Bears large daisy-like flowers ranging in color from white to deep red with bright yellow centers; fine for cutting. Blooms in early Spring and again in the Fall. Single varieties, all colors mixed. Pkt., 15c.

Rudbeckia. Cone Flower. Splendid plants for interplanting with shrubbery or for a tall border. They are free-flowering with blossoms like a small sun-flower, as suggested by the illustration below. These are borne on strong, erect stems, excellent for cutting. They are of remarkably easy culture, seldom attacked by insects or disease. The plants should be staked when 3 feet high. Keep blossoms cut to prolong the blooming season.

3390. *R. Fulgida.* Very effective variety, producing in August and September, masses of brilliant, orange-yellow flowers, 3 feet. Pkt., 15c.

3392. *R. Newmanni.* Magnificent Autumn flowering perennial; flowers large, bright orange-yellow petals; center maroon, cone-shaped. 3 feet. Pkt., 15c.

3394. *R. Purpurea.* A most striking hardy perennial; flowers all Summer; very large, reddish-purple, an unusual, but attractive color. 3 feet. Pkt., 15c.

3396. **Scabiosa caucasica.**

White resembling in shape the annual Scabiosa, this hardy variety bears large blossoms of a delicate lilac blue shade. The plants grow about 2 feet high, blooming from July until frost. A fine plant for borders or cut flowers. Pkt., 15c.

3397. *S. perfecta.* Outer petals azure blue, center lilac. Unusually fine. Pkt., 25c.

For culture of perennials see top of page 78. See pages 83 to 89 for hardy perennial plant list.



HARDY PERENNIAL FLOWERING PLANTS

For Permanent Planting in Borders or Beds.



There is an increasing demand for plants that are perfectly hardy, and do not have to be taken up every Fall or replaced every Spring. The following list has been selected with care and contains a fine assortment of plants that make valuable permanent borders.

The old-fashioned gardens of our grandmothers contained a wealth of gorgeous bloom throughout the entire Summer from early Spring until Autumn. These gardens are again coming into popular favor, and since the advent of the new and highly improved strains of Hollyhocks, Peonies, Iris, Phlox, etc., it is possible to convert them into veritable bower of beauty by a liberal display of hardy herbaceous perennials. Beginning almost before the snow is off the ground, early-flowering varieties open their blossoms, as welcome harbingers of Spring. Almost every week until late in the Fall some new variety bursts forth into entrancing loveliness, blooming so persistently as to almost defy Jack Frost in his

efforts to subdue the floral kingdom. A start may be obtained at so small an expenditure as not to be counted when measured with the satisfaction and pleasure derived from them. Once planted they are there to

stay, requiring very little care, increasing in size and bloom and growing better from year to year. Herbaceous means "like an herb," that is, the branches above the ground are not hard and woody, as with shrubs and trees. Perennial plants are those that live year after year, only dying to the ground in Winter, the roots remaining alive and dormant in the ground; this distinguishes them from annuals which must be raised from seed each season. Send in your order in advance so that the plants can be sent in time to get an early start.

Key to size and blooming period. To assist the buyer in making selections from groups and in their proper arrangement when planting, we give average height and season for blooming under average conditions. Thus the gardener can arrange for certain color schemes at various seasons.

The price in every case, is for strong, field grown plants, for shipment by freight or express at purchaser's expense. If single plants are wanted by mail, add 10c each to cover cost of mailing. Six at dozen rate.

Achillea, The Pearl. One of the very best white flowered border plants, resembling Pompon Chrysanthemums. See page 78 for illustration. Each, 25c; doz., \$2.50.

A. *Millefolium Roseum*. Finely cut foliage, flat flower-heads, color magenta. Each, 25c; doz., \$2.50.

Anchusa, Italian Dropmore Variety. Forget-me-not-like blue flowers borne in profusion on branching stalks 4 to 5 feet tall. They bloom from May to July, of very vigorous growth. Each, 25c; doz., \$2.50.

Anemone Japonica. Wind Flowers. Suitable for edging, massing or single specimens. Grow rapidly 2 to 3 feet and are profuse in bloom, gaining strength and beauty each year. Bloom from August till mid-November, the large open flowers furnishing abundant cut flowers and a brilliant field display.

A. *Alba*. A fine, large snowy-white. Each, 35c; doz., \$3.50.

A. *Queen Charlotte*. Large, silvery-pink. Each, 35c; doz., \$3.50.

A. *Rubra*. Beautiful, rosy-red. Each, 35c; doz., \$3.50.

Aquilegia. Columbine. The distinct, clear-cut foliage and delicate arrangement of colors in the flowers of Columbine, make it one of the showiest and most desirable of the hardy garden plants; especially suitable for rockwork, at the base of foundation walls, and under trees.

A. *Coerulea*. A beautiful Rocky Mountain species with broad flowers, often 3 inches in diameter; the outer sepals deep lilac or blue, petals white, the deep blue spur, tipped green. Each, 20c; doz., \$2.00.

A. *Coerulea Long Spurred Hybrids*. Beautiful variations from the standard type. See illustration on page 78. Each, 25c; doz., \$2.50.

A. *Chrysanth*. Golden yellow flowers with long spurs; one of the most distinct of the family. Each, 20c; doz., \$2.00.

A. *Nivea Grandiflora*. Pure white. Each, 20c; doz., \$2.00.

Armeria. Thrift or Sea Pink. Splendid plants for flower borders or permanent edging, flowers shaped like clover heads.

A. *Maritima Splendens*. Silvery-pink flowers. Each, 25c; doz., \$2.50.

Artemisia Lactiflora. An effective flowering plant, 4 feet high bearing graceful panicles of creamy-white flowers on long stems. Blossoms August and September. Each, 35c; doz., \$3.50.

Asters. Michaelmas Daisies. Bloom all Summer in great profusion. 3 feet.

A. *Novae Angliae*. Its deep bluish purple flowers make a charming show after many Fall plants have succumbed to the cold. Each, 25c; doz., \$2.50.

Boltonia Asteroides. False Chamomile. Bushy plants 5 feet high, covered with dainty aster-like white flowers. Each, 25c; doz., \$2.50.

B. *Latisquama*. Lavender pink flowers. Good cut flower. Each, 25c; doz., \$2.50.

Buddleia variabilis magnifica. Butterfly Bush or Summer Lilac. Very desirable new shrub-like plant, beginning to bloom in July. Grows 4 feet high, with long graceful stems that terminate in tapering panicles of beautiful lilac-like flowers, many heads being 10 inches long. Each, 35c; doz., \$3.50.

Campanula Calycanthemum. Cup and Saucer. A fine type of this old favorite, differing from ordinary Canterbury Bells in having a large calyx below the bell giving the flower a cup and saucer appearance. Blue, Pink, White or Mixed. Each, 25c; doz., \$2.50.

Campanula Carpatica. Carpathian Hare-bell. A pretty compact species, not exceeding 8 inches high, flowers clear blue, one inch in diameter. Each, 25c; doz., \$2.50.

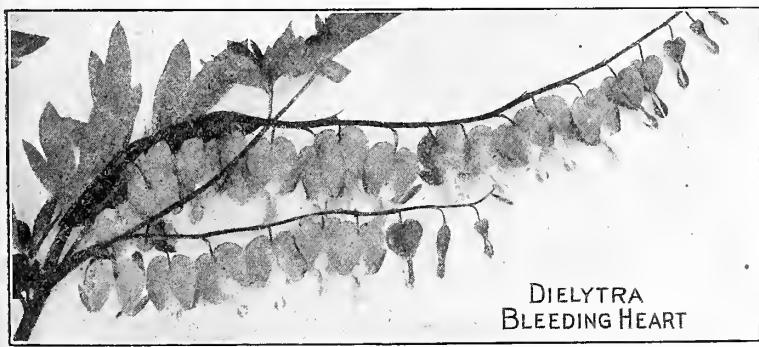
Campanula Medium. The well known "Canterbury Bells." Bloom in July; height 2 to 3 feet. Blue, Pink, White or Mixed. Each, 25c; doz., \$2.50.

C. *Persicifolia*. Peach Bells 1½ to 2 feet high; cup-shaped flowers. Blue or White. Each, 20c; doz., \$2.00.

C. *Pyramidalis*. Chimney Bell-flower. Very conspicuous; 4 to 5 feet high. Salver-shaped blue flowers borne profusely in September. Each, 25c; doz., \$2.50.

Centaurea Montana. Hardy Corn Flower. Grows 2 feet high, bearing large violet-blue flowers from July to September. Blooms freely. Each, 35c; doz., \$3.50.

Chelone Lyoni. Shell Flower. Showy, deep red, gentian-shaped flowers borne on numerous spikes about 3 feet high. Each, 25c; doz., \$2.50.



DIELYTRA
BLEEDING HEART



Campanula. Canterbury Bells.

Chrysanthemum leucanthemum. Alaska Shasta Daisy. One of the most valuable perennials, blossoms all summer producing showy blooms of the purest white. Each, 25c; doz., \$2.50.

Coreopsis lanceolata grandiflora. One of the best of all the hardy plants for cut flowers. From June until frost it displays a profusion of golden blossoms uplifted on long graceful stems as in the illustration on page 81. Each, 25c; 6 for \$1.25, doz., \$2.50.

Delphinium. Perennial Larkspur. Long, showy spikes of flowers from June until frost which furnish the most satisfactory blues. They vary in height from the 18 inch Chinensis to the stately Hybrids, 6 feet tall. D. Belladonna. Freest-blooming of all. The clear turquoise-blue of its flowers is not equaled for delicacy and beauty by any other flower. Each, 25c; doz., \$2.50.

D. Chinensis. Fine stems and deeply cleft foliage; flowers all light shades of blue. 18 in. Each, 25c; doz., \$2.50. D. Chinensis Alba. Pure white flowers. Each, 25c; doz., \$2.50.

D. Formosum. The old fashioned very dark blue variety. 3 to 4 feet. Each, 25c; doz., \$2.50.

D. Coeruleum. A charming delicate blue. Each, 25c; doz., \$2.50.

D. Gold Medal Hybrids. A choice strain of Hybrids embracing all shades of blue and purple. Each, 20c; doz., \$2.00.

Dianthus Barbatus. Sweet William. A fine old garden favorite, biennial, but one which perpetuates itself by self sowing. Height 18 inches. Flowers in June and July. The colors are very bright, effective and in an endless variety of white, pink, purple, crimson and scarlet; many sorts variously edged, eyed and spotted. Single and double varieties mixed, each, 25c; doz., \$2.50. For Annual Sweet William see page 77.

Dielytra. Bleeding Heart. The pink and white heart-shaped flowers are borne on long graceful stems, making the plant, with its finely cut foliage, very attractive. The plants increase in size from year to year and are beautiful, even when not in bloom. See illustration on page 83. Each, 25c, (postpaid, 35c); doz., \$2.50.

Digitalis. Fox Glove. Furnishes a grand display of thimble-shaped flowers in immense spikes during July and August.

D. Gloxiniaeflora Mixed. Beautiful strain of finely spotted varieties. Each, 25c; doz., \$2.50. Illustration, page 79.

Doronicum Excelsum. Orange-yellow, daisy-shaped flowers; 3 1/2 in. across; 2 to 3 ft. high. Each, 25c; doz., \$2.50.

Funkia. Plantain Lily. Very useful plant for partial shade with broad, glossy leaves and numerous flower spikes.

F. Coerulea Blue Day Lily. Rich blue flowers. Each, 25c; doz., \$2.50.

F. Subcordata Grandiflora Alba. Large spikes of snow-white fragrant flowers in August. Each, 35c; doz., \$3.50.

Gaillardia Grandiflora. Blanket Flower. Makes one of the most gorgeous and prodigal displays of all perennials. Flowers often measure 3 inches in diameter, on clean 2 foot stems. A hard center of deep maroon is thickly bordered by petals of orange and yellow, strikingly ringed by circles of crimson, red and maroon. Poor soil will do, and a constant show is assured from June till frost. Each, 25c; doz., \$2.50.

Geranium Sanguineum. Cranesbill. A compact bush 18 inches high, with graceful cut foliage and an all summer's profusion of blood-red flowers. Each, 25c; doz., \$2.50.

Geum Coccineum. Flowers are double, bright scarlet in color and last well when cut. Each, 30c; doz., \$3.00.

Gypsophila Paniculata F. P. Double Flowering Baby's Breath. Small white flowers on branched stems so thick as to give the plants a lace-like effect. This new variety is already a favorite with florists for use with other cut flowers. Each, 50c; doz., \$5.00.

Helenium. Sneezewort. Desirable border plant with tall, spreading clusters of daisy-shaped flowers which appear in the late summer.

H. Riverton Beauty. Lemon-yellow, with a large disc of purplish-black. Each, 35c; doz., \$3.50.

H. Riverton Gem. Old-gold changing to russet. Each, 35c; doz., \$3.50.

Helianthus. Hardy Sunflower. Free flowering plants at their best in September and October.

H. Miss Mellish. Bears single, golden-yellow blossoms, grows about 6 feet tall. Each, 25c; 6 for \$1.25; doz., \$2.50.

H. Wolley Dodd. Starts to bloom about 2 weeks after Miss Mellish. Has very deep-yellow flowers. Each, 25c; 6 for \$1.25; doz., \$2.50.

Heliopsis Pitcheriana. Orange Sunflower. Pretty daisy-like flowers, orange yellow, with a pyramidal center of darker shade. Each, 25c; doz., \$2.50.

Hemerocallis. Yellow Day Lily. Effective in clumps and masses, numerous panicles of orange and yellow lily-like flowers protruding high above the grass-like foliage.

H. Dumortieri. Dwarf and compact; 2 feet; flowers orange. Each, 25c; doz., \$2.50.

H. Flava. LEMON LILY. Crowned by beautiful lemon-colored flowers 3 to 4 inches in diameter, and delightfully fragrant. 3 feet. Each, 25c; doz., \$2.50.

H. Fulva, TAWNEY LILY. Tawney orange yellow; 3 feet. Each, 25c; doz., \$2.50.

H. Kwanso. fl. pl. (Double Orange Lily.) Large, double, copper colored flowers. Each, 25c; doz., \$2.50.

Heuchera Sanguinea. Alum Root. A clump of this very desirable plant when in full bloom dazzles the eye with its brilliant crimson spikes. 2 feet. Each, 35c; doz., \$3.50.

H. Pluie de Feu or Rain of Fire. Fiery-scarlet blossoms. Each, 35c; doz., \$3.50.

Hibiscus Moscheutos. The fine old swamp Rose Mallow. Large purplish pink flower with large dark eye. 4 to 5 feet. Each, 25c.



Delphinium.

H. Crimson Eye. Immense flowers of purest white, with large centers of velvety crimson. Each, 25c; doz., \$2.50.

Hibiscus. New Giant-Flowering Marshmallows. Noble shrub-like plants 5 to 8 feet high, with handsome green foliage and flowers often 10 to 12 inches in diameter. We offer strong roots in three distinct colors, Red, Pink or White. Each, 50c.

H. Mallow Marvels. Strong type, of upright habit, producing large flowers, crimson, white and mixed. Choicest mixed. Each, 35c; doz., \$3.50.

Hollyhock. Indispensable plants, possessing a character peculiar to themselves which renders them especially valuable to break up any set effect in lawn planting, with their towering spikes of showy flowers. As usually treated, the Hollyhock is a biennial, but if planted in rich loam where the water will not settle around the crown in the Winter they become very satisfactory perennials.

H. Allegheny or Mammoth Fringed. Extra large flowers, in mixed colors. Finely curled and fringed. Single mixed. Each, 25c; doz., \$2.50.

H. Double. Very double, rosette Each, 25c; doz., \$2.50.

A strong grower, sending up long numbers of charming golden-yellow



Hibiscus.

blossoms. White, Rose, Red, Maroon or Pink.

Hypericum Moserianum. St. John's Wort. Branching stems leafy to the base and bearing great flowers shaped much like a wild Rose but with heavier petals and many yellow stamens. Each, 35c; doz., \$3.50.

Liatris. Blazing Star or Gay Feather. Handsome, rosy-purple spikes, 5 feet high in August. Each, 25c; doz., \$2.50.

Lily of the Valley. The exquisite white flowers and pale green foliage render this one of the most admired of plants. Succeeds in open ground in almost any situation, but prefers shade with plenty of moisture; once planted and established the crowns increase each year. Prepare the soil with a mixture of leaf-mold, sand and plenty of well rotted manure, which should be thoroughly incorporated with the soil two feet deep. Set the roots about two inches below the surface. No further attention is required. They are perfectly hardy and are not injured by frost. Flowering clumps, by express at buyer's expense, each, 50c; doz., \$5.00, or postpaid, 65c, each. See illustration page 85.

Lobelia Cardinalis. Cardinal Flower. One of the showiest things in the garden. Intense cardinal-red flowers arranged in stocky spikes 15 to 18 inches long keep the plant alight throughout August and September. Each, 25c; doz., \$2.50.

Lupine. Beautiful hardy border plants producing tufts of soft green foliage, from which arise successive spikes of bloom in late Spring. See illustration, page 80.

L. Polyphyllus Moerheimi. Rare combination of light and dark shades of pink. Each, 50c; doz., \$5.00.

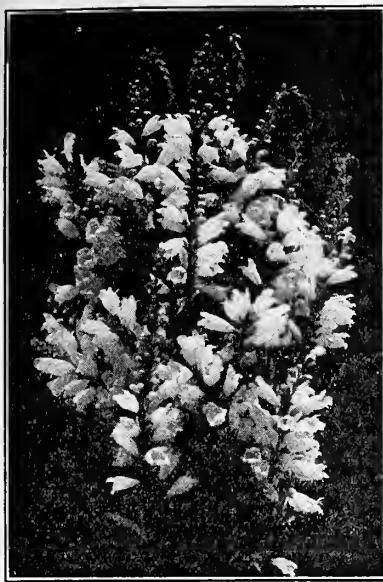
L. Polyphyllus Blue. Deep blue. Each, 35c; doz., \$3.50.

Lychnis Chalcedonica. Maltese Cross or Ragged Robin. Heart-lobed stars of brightest vermillion, arranged in large flat panicles, make this variety as showy as a Geranium and an excellent cutting sort. Each, 30c; doz., \$3.00.

Lysimachia nummularia. Loose-Strife or Moneywort. A rapid growing plant of creeping tendency, soon covering the ground with a dense carpet of foliage, and is well adapted to use as a cover under trees and shrubs where grass does not readily grow. Deep yellow flowers. Each, 25c; doz., \$2.50.



Funkia subcordata. White Day Lily.



Physostegia.

Pyrethrum Roseum. Foliage fine-cut and attractive; flowers borne profusely on long straight stems, colored in all shades of rose. A splendid cut flower and conspicuous in the garden. Each, 25c; doz., \$2.50.

Pyrethrum Uliginosum Stellata. Greatly improved form of the Giant Daisy but with long, narrow petals forming flowers one-half larger. The best Daisy for cutting during late Summer. Each, 35c; doz., \$3.50.

Pyrethrum Uliginosum. Giant Daisy. One of the best September blooming perennials for the Northwest, bearing its large white flowers on 5 foot stems. Each, 25c; doz., \$2.50.

Rosemary. Old favorite aromatic herb with delicious, mint-like odor. Each, 30c; doz., \$3.00.

Rudbeckia "Golden Glow." The most prolific and satisfactory hardy perennial of all yellow flowering sorts. Grows 5 to 7 feet and blooms from early Summer until frost. Flowers are produced on long stems in enormous quantities, and resemble golden-yellow Cactus Dahlias. Each, 25c; doz., \$2.50.

R. Newmannii. Dark orange flowers, with deep purple cone, borne on stiff stems, 3 feet high. July to October. Each, 25c; doz., \$2.50.

R. Purpurea. Purple Cone Flower. Large drooping petals, reddish purple, with prominent cone-shaped center. Each, 25c; doz., \$2.50.

R. Sub-Tomentosa. Pyramid shape, branched plant, 2 1/2 feet high. It is completely enveloped through the Summer in a mass of lemon-yellow flowers with dark center. Each, 25c; doz., \$2.50.

Maxima. Variety of special merit, 5 feet high. Bright yellow flowers 5 to 6 inches across, borne continuously from June to October. Each, 25c; doz., \$2.50.

Scabiosa Caucasia. Blue Bonnet Pincushion Flower. Soft blue lavender flowers, about 2 1/2 inches in diameter. These are borne on 2 foot stems. They last well as cut flowers. Each, 35c; doz., \$3.50.

Stokesia Cyanæa. Stoke's Aster. One of the most charming hardy plants, freely blooming from July to October. Flowers of Centaurea shape, often measure four to five inches across, making a rich show of lavender-blue. 1 1/2 to 2 feet. Each, 25c; doz., \$2.50.

Sweet William. See Dianthus barbatus, pages 84 and 77.

Tritoma. Flame Flower. Rush-like foliage supports smooth, thick flower stalks a yard long with a single fiery cone at the top.

T. Uvaria Grandiflora. Vivid orange-scarlet with orange base—commonly called "Redhot Poker" plant. Each, 25c; doz., \$2.50.

T. Pfitzeri. An improved type of more perfect form, and showing a marked predominance of scarlet, the opened lower petals merely being rimmed with orange. Each, 35c; doz., \$3.50.

Trollius. Globe Flower. Desirable free-flowering plants, producing their giant buttercup-like blossoms on stems 1 to 2 feet high from May until August.

T. Europaeus. Large, bright yellow, globe-shaped flowers. Each, 35c; doz., \$3.50.

T. Orange Globe. Large, deep-orange colored flowers. Each, 35c; doz., \$3.50.

Veronica Longifolia Subsessilis. Grows about 3 feet high and produces many spikes of deep blue flowers. Each, 35c; doz., \$3.50.

Vinca minor. Periwinkle. Green Trailing Myrtle. 8 in. A showy creeping plant with glossy evergreen foliage. Bright blue flowers borne freely in early Spring and at intervals throughout the Summer. Thrives in places too shady for grass and is thus valuable for many purposes. Each, 25c; doz., \$2.50.

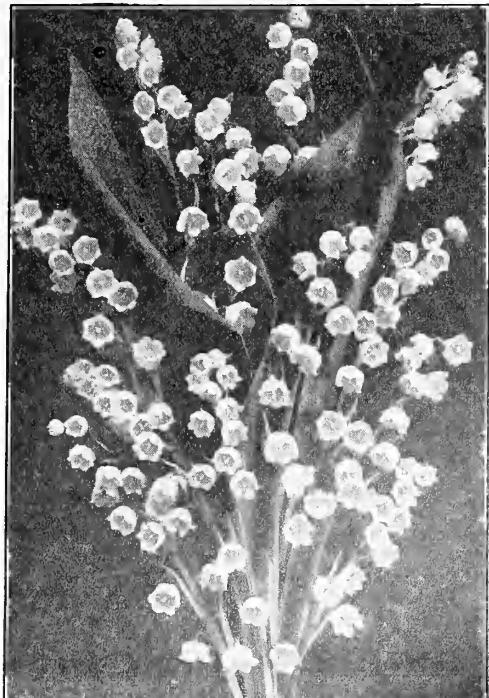
Yucca Filamentosa. Adam's Needle. A hardy evergreen plant with long narrow leaves that are bright green the whole year. The flowers are creamy white, bell-shaped, produced on long spikes, 3 to 4 feet high. Fine stately lawn plant. Each, 35c; doz., \$3.50.

Hardy Perennial Collection.

The above varieties of Hardy Perennial Plants represent the very best sorts for northern growing, and were selected as being the most desirable for that purpose. All are hardy and should give very satisfactory results, season after season. We now offer a collection of twelve varieties, of our selection, all different, for \$2.50, by express at purchaser's expense. We cannot list the varieties as each collection may differ from the others and the date at which the order is received may also have something to do with what one may receive. Nevertheless each collection will prove of great interest and value to the purchaser and will be worth much more than is asked for it. One dozen perennial plants, 12 varieties, \$2.50.



TRITOMA PFITZERI



Lily of the Valley. See page 84.

German Iris

The German Iris or Fleur-de-Lis are among the most desirable, hardiest and easiest grown of our spring-flowering plants. To this class belong the old-fashioned "flags" which have been so much improved in recent years that one can hardly recognize the older forms of the parents in some of the beautiful, newer varieties, the freest-blooming of the Iris family. Plant in a dry, sunny location, setting the roots quite shallow. They will be ready for planting from March to May and can also be supplied from September to November.

S. Standards F. Falls.
If by mail, add 5c each, extra.

Aurea. S. and F. rich chrome - yellow. One of the best yellows. Each, 25c; doz., \$2.50.

Charles Dickens. S. Light violet. F. Indigo, white at base; late, 30 in. Each, 20c; doz., \$2.00.

Edith. S. Porcelain-blue. F. Velvety blue, veined white; medium, 22 inches. Each, 15c; doz., \$1.50.

Flavescens. Creamy white; late, 30 inches. Each, 15c; doz., \$1.50.

Florentina Alba. Porcelain changing to white. Splendid fragrant flower; very early, 30 inches. Each, 15c; doz., \$1.50.

Florentina. Blue. One of the old favorites; medium, 24 inches. Each, 15c; doz., \$1.50.

Khedive. Fine shade of lavender; medium, 30 inches. Each, 15c; doz., \$1.50.

La Tendresse. S. Clouded porcelain F. Blue with light base; medium, 24 in. Each, 15c; doz., \$1.50.

Mme. Chereau. White, edges of petals penciled azure-blue; medium, 3 to 4 ft. strong stems. Each, 15c; doz., \$1.50.

Marginet. S. Light, clear yellow. F. Yellow, interlaced magenta, medium, 30 inches. Each, 15c; doz., \$1.50.

Marmorata. S. Grayish lavender. F. Violet, richly veined, medium, 30 inches. Each, 15c; doz., \$1.50.

Nymph. S. Pale lavender. F. Purple, veined white; medium, 30 inches. Each, 15c; doz., \$1.50.

Phaaron. Yellow and brown. Each, 15c; doz., \$1.50.

Queen of May. Rosy lilac, almost pink, very fine; early, 30 in. Each, 15c; doz., \$1.50.

Sans Souci. S. Golden. F. Mahogany-red, late, 24 inches. Each, 15c; doz., \$1.50.

Stenophylla. S. Lilac. F. Violet, very fragrant, medium, 24 in. Each, 15c; doz., \$1.50.

Iris Pumila.

Very pretty, dwarf variety of German Iris, growing about 8 inches high, very free-blooming, sweet scented. These bloom about two weeks before the German Iris. Useful for edging. Lilac-purple flowers. Each, 15c; doz., \$1.50; if by mail 5c each, extra.



German Iris are extremely effective in the perennial border as shown in the upper photograph or in front of shrubbery as illustrated in the lower picture.
Poet's Narcissus are planted with the Iris above and Hemerocallis below.

German Iris.

Twelve Peerless Iris.

S. Standards. F. Falls. If wanted by mail, add 5c each, extra.

Albert Victor. S., soft light blue. F., soft lavender. 36 inches. Fragrant. A grand pale blue flower. Each, 50c.

Atropurpurea. S. and F., rich claret purple. Extra fine. Each, 50c.

Bergiana. S. and inner petals pure gold. F., maroon with rich gold tracing. 24 inches. Each, 50c.

Conspicua. S., soft clouded yellow. F., velvety madder. 24 inches. Each, 50c.

Darius. S., primrose yellow. F., lilac with primrose margin. 18 inches. Each, 50c.

Duc d' Nemours. Beautiful violet and white. Each, 50c.

Elegans. S., nearly white, marked with violet. F., violet, veined white. Each, 50c.

Gypsy Queen. S., old gold, shaded smoked pearl. F., maroon, reticulated light yellow. Each, 50c.

Mad. Pacquette. Rosy claret. Beautiful and fragrant. 30 inches. Each, 50c.

Monhassan. A striking variety. White, yellow and brown. Each, 50c.

Sambuciana Beethoven. S., lilac finely reticulated. F., rosy purple, orange crest. 24 inches. Each, 50c.

Walhalla. S., light sky-blue. F., violet-purple, paler towards the edge. 20 inches. Each, 50c.

Peerless Collection. Special offer, one of each of the Peerless varieties, 12 in all, by express at purchaser's expense, \$5.00, or sent prepaid to any part of the U. S. for \$5.50.

Rainbow Collection. Special offer, one of each of the 16 tall varieties offered on the opposite page, and the five Siberian Iris offered below, 21 in all, by express at purchaser's expense, \$3.50, or sent prepaid to any part of the U. S. for \$3.85.

Siberian Iris.

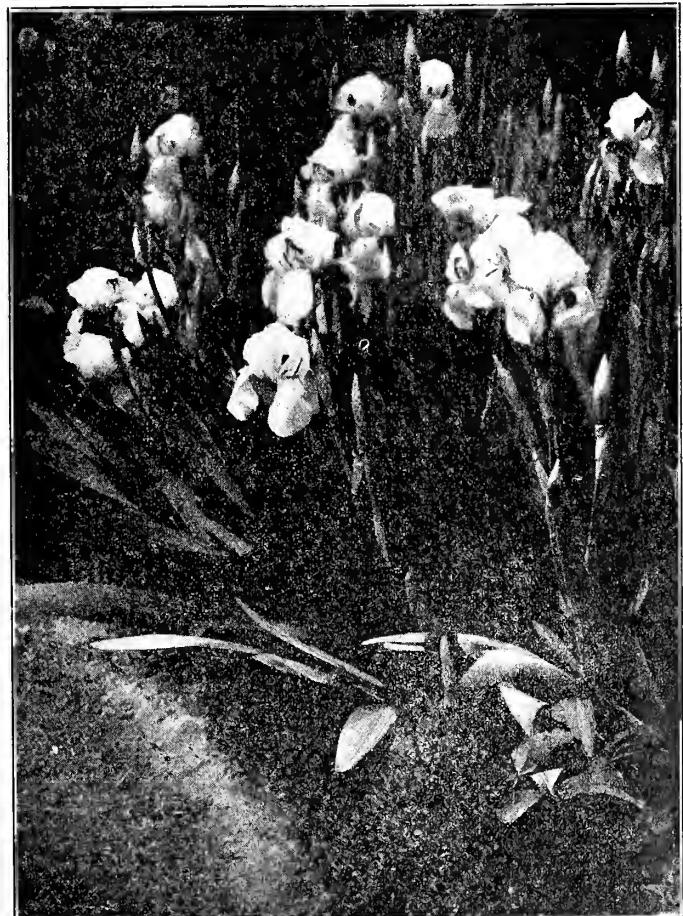
Siberian Blue King. Large, clear blue flower. Each, 20c; doz., \$2.00.

Siberian Snow Queen. Height, 42 inches. Pure white. Each, 35c.

Siberian Blue Iris. A flower of remarkable hardness, intense purplish blue, blending richly with other colors. Each, 20c; doz., \$2.00.

Iris Orientalis — "Yale Blue." Distinct, free-growing variety, very large for its class. It produces a mass of deep blue flowers from June to August, 3 feet. Each, 20c; doz., \$2.00.

Orientalis Gigantea or Gold Banded Iris. Handsome foliage. Flowers ivory-white with orange-yellow blotch at base of falls; late, 4 feet. Each, 25c; doz., \$2.50.



German Iris.



Japanese Iris.

Japanese Iris (Kaempferi.)

A bed of these Iris once established is a "joy forever"; the enormous flowers often ten inches across are strong growers and make a striking display. They begin to bloom in June and continue many weeks. All of them are beautiful. They thrive best in a moist situation, but if planted in ordinary garden soil should be frequently watered in dry weather. They should have a partially shaded location, protected from the strong mid-day sun, for example on the north or west side of the house.

- No. 3. **Kumo-no-obi**, lavender, shaded white, very full center.
- No. 5. **Kyodaisan**, dark purple, with light center, very double.
- No. 14. **Hana-aoi**, pale lavender, dark stripes, purple center, 6 petals.
- No. 15. **Ugi-no-sato**, rare shade of French gray, bronze center.
- No. 16. **Okubauri**, white with blue stripes, center purplish.
- No. 19. **Gosetsu-no-mai**, violet-blue, veined white, with double center.
- No. 20. **Shirataki**, white with gold center, 6 wavy petals.
- No. 21. **Kuma-funjiu**, dark purple, ruffled petals, double center.
- No. 22. **Datedogu**, deep rose, shaded white center, 3 petals.
- No. 23. **Sofu-no-koi**, lavender, white and gold center.
- No. 24. **Kurokumo**, rich bluish purple, gold center.
- No. 25. **Idzumigawa**, white, shaded lavender, delicate blue veins.

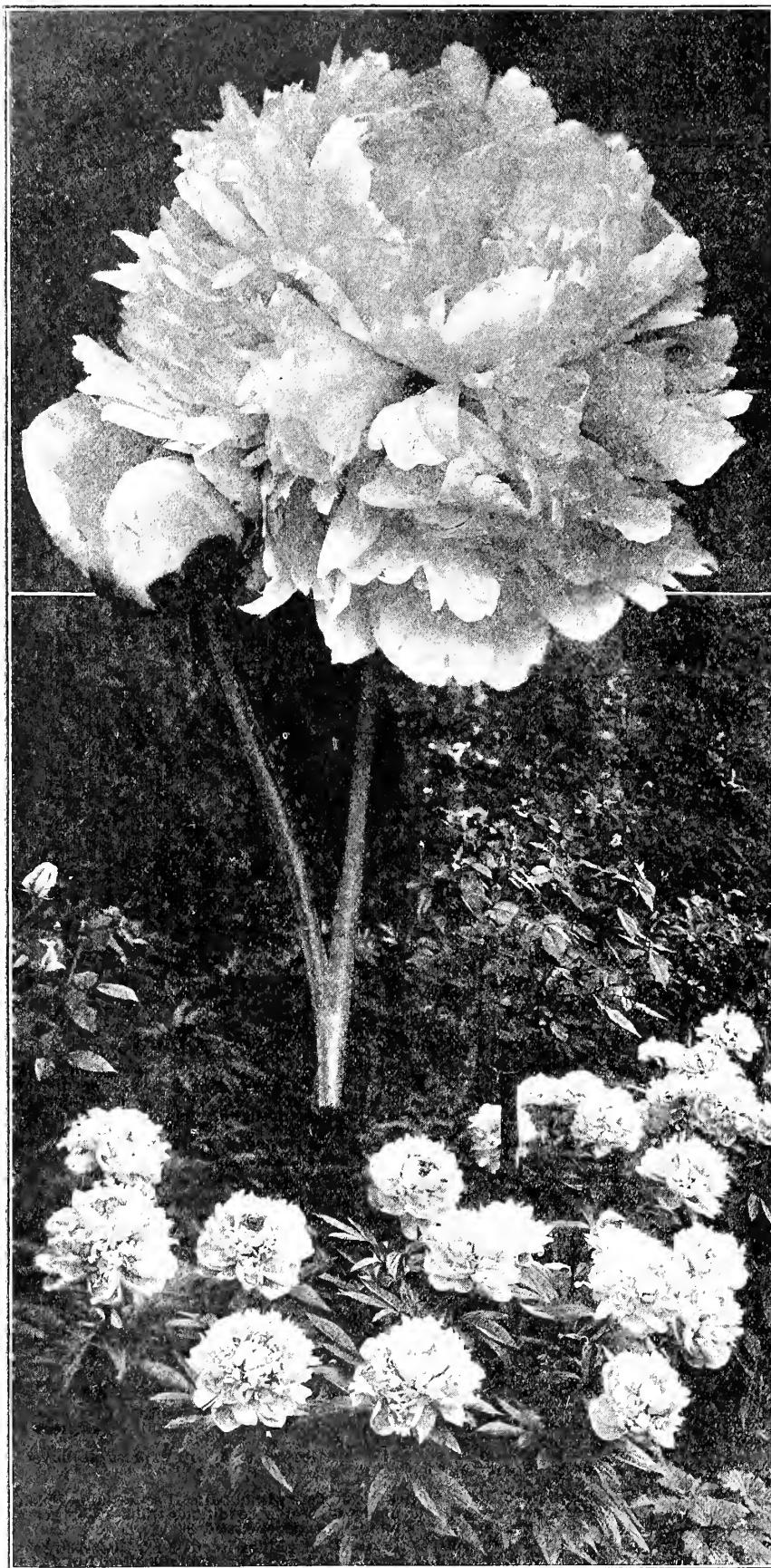
In ordering please give numbers of varieties wanted. Price, large clumps as imported, each, 50c, postpaid; by express at buyer's expense, each, 35c; doz., \$3.50. One each of the above 12 varieties for \$3.50 by express at buyer's expense. Six for \$1.75.

A Suggestion. No garden is complete without Iris, Peonies and Phlox. They are easy to grow and under favorable conditions will live for years. The first cost is very moderate. See pages 88 and 89.

Favorite Perennial Collection. Six Phlox Roots, 6 Iris Roots, 3 Peony Roots, 15 Roots—all different standard varieties—our selection for \$3.00, by express at purchaser's expense or sent prepaid to any part of the United States for \$3.50.

Superb Peonies

Hardy as the Oak—Once Planted All Is Done
Increasing In Size and Beauty With Age.



A Peony hedge row makes a gorgeous June display. The upper photograph shows a head of *Festiva Maxima*.

The Peony is a native of Siberia which undoubtedly accounts for its great vigor and hardness. The ideal flower for the great Northwest, since it endures the most intense cold without injury.

Set the roots slanting 3 to 4 feet apart each way, with the topmost buds 4 inches below the surface. They will generously repay good care; keep the soil loose and free from weeds but use manure sparingly and only after the ground is frozen. A few handfuls of bone meal worked around the crowns will greatly improve the blooms. Peonies do best in a sunny location and should be left undisturbed for years.

The varieties offered below include a complete range of form and color, all desirable sorts.

They are for delivery from March to May but can also be supplied from September to November.

If by mail add 5¢ each, extra.

White and Light Shades.

Duchess d'Nemours.	Pure white, fragrant, vigorous grower.	50c
Festiva Maxima.	Large white, very fine.	50c
La Tulipe.	Blush white, outer petals striped red.	75c
Queen Victoria.	Fine white, good cut flower.	35c

Red and Crimson Shades.

Andre Laures.	Violet red, fragrant, late.	25c
Baron Rothschild.	Very fine, purplish lilac.	35c
Charles Verdier.	Large lilac-carmine bloom.	35c
Delachei.	Deep crimson-purple, very large.	50c
Francis Ortegat.	Brilliant crimson, full double.	35c
La Sublime.	Very fine, floriferous, crimson.	50c
Marechal Viallant.	Large, deep red, very late.	50c
Plutarch.	Very fine, glistening crimson.	50c
Rubra Triumphans.	Very large, bright crimson.	50c

Pink and Rose Shades.

Alexander Dumas.	Fine lilac pink.	50c
Edulis Superba.	Rose-pink, very early, fragrant.	35c
Floral Treasure.	Bright light pink.	50c
Grandiflora Rosea.	Beautiful dark pink.	35c
Humei.	Immense, cinnamon centered, pink.	35c
La Coquette.	Large pink, center shaded deeper.	75c
Lady Leonora Bramwell.	Soft pink; very fine.	50c
Louis Van Houttei.	Deep carmine-rose, tipped silver.	35c
Madame Furtado.	Beautiful deep pink.	35c
Madame Lebon.	Bright cherry-pink, silvery reflex.	50c
Pomponia.	Blush-pink, tall, vigorous.	25c
Reine Victoria.	Pink, very fine cut flower.	25c

All the above prices are by express at purchaser's expense. If wanted by mail add 10¢ each for postage.

Peonies for Hedge Rows and Massing.

By Express Only at Purchaser's Expense.	Dozen.	100
Double White, unnamed.	Each, 30c	\$3.00 \$20.00
Double Pink, unnamed.	Each, 20c	2.00 15.00
Double Red, unnamed.	Each, 25c	2.50 17.50
Double Rose, unnamed.	Each, 25c	2.50 17.50

Six at dozen rate; 25 at 100 rate.

Peony Collections.

Special Offer. One of each of the above 25 named varieties for \$10.00, by express at purchaser's expense. If wanted by mail add postage for 20 lbs.

Surprise Collection. One each of 12 choice varieties, our selection, for \$4.00, by express at purchaser's expense; or postpaid for \$4.50.



Northrup, King & Co.'s Minnetonka Collection of Ten Double Peonies.

For Size, Shape, Color and Richness, These Varieties Stand Alone—Beauties par Excellence!

If by mail, add 10c each, extra.

Daubenton.

Very large, deep rose. Vigorous grower and one of the most desirable sorts on our list. Each, 75c.

Baroness Schroeder.

One of the finest, flesh-white changing rapidly to purest white—very lovely. Fragrant, free-blooming and a good keeper; strong grower, mid-season. An ideal Peony. Each, \$3.00.

Felix Crousse.

Large, compact ball, brilliant dazzling red with ruby flame center. Medium height, free bloomer, late midseason. Exceptionally effective. Each, \$1.

Madame Ducel.

A large globular flower with a frill of guard petals, silvery-pink in color. Strong grower, medium height, midseason, very free blooming. Each, \$1.25.

Madame de Verneville.

Large and very full. Pure white, center blush when first open, fading to pure white with a touch of carmine. Medium height, extra-free bloomer, early. Each, 75c.

Madame Emile Galle.

Large, compact rose type. Deep lilac-white with creamy-white center. Medium height, strong, free bloomer, late. An attractive variety of the most delicate coloring. Each, \$1.25.

Milton Hill.

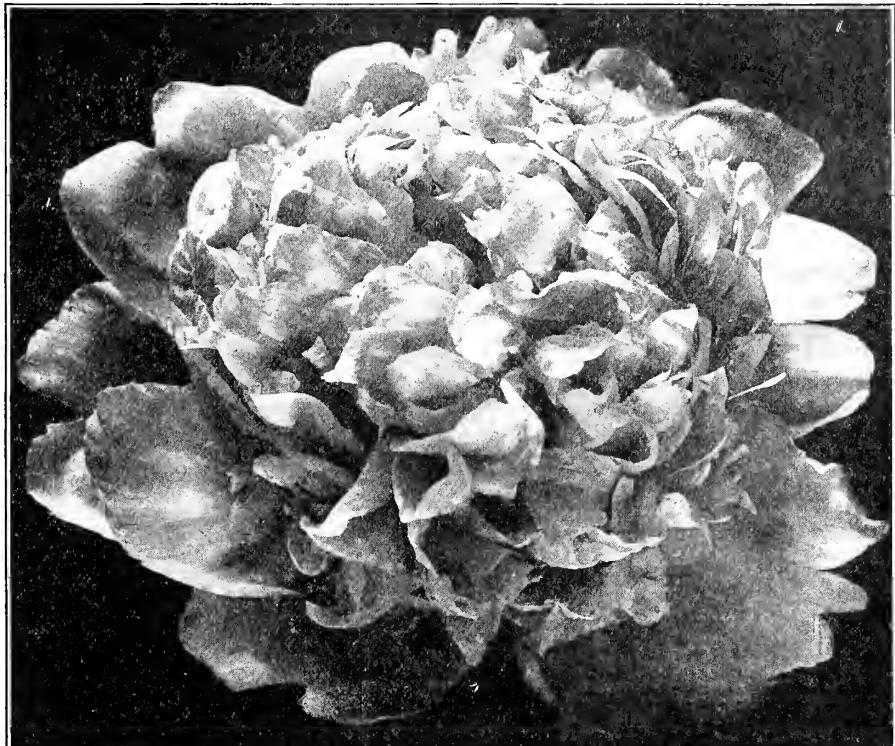
Often called "the finest Peony in existence." Very large, globular form, of compact rose type. Delicate pale lilac-rose—a distinct, pure color. Exceedingly strong grower, medium height, late. Each, \$5.00.

Mons. Jules Elie.

Immense globular, very full flower; broad, overlapping petals; glossy shell-pink with silvery reflex on whole bloom. This pink Peony most nearly approaches perfection. Medium height, early. Each, \$2.00.

Nobilissima.

Very deep rose to red; tall, erect grower. An extra fine variety and very effective for landscape work. Each, 75c.



Mons. Jules Elie, shell-pink.

Princess Beatrice.

Pink guard petals, with a collar of yellow. Large rose tuft in center. Free bloomer and a striking flower, early. Each, \$1.50.

Minnetonka Collection.

One of each of the ten Peonies described above, \$16.00, by express at purchaser's expense, or sent prepaid for \$17.25.

Single Peonies.

Single Peonies appeal more to some people than do the Double varieties. The cushions of pure gold stamens set off the delicate tints of the surrounding petals to great advantage and the general effect of the pink sorts is that of immense single Roses. They flower before the Double varieties.

Hermes.

Clear rosy-pink, of good form, makes a splendid bedder. The buds are especially attractive. Each, 35c, postpaid, 45c.

Queen.

Large, lilac-white. Strong, of medium height and a free bloomer. Early and fragrant, a very desirable single white. Each, 35c, postpaid, 45c.

Wild Rose.

Fine open-faced crimson flower, with rich golden center. Each, 35c; postpaid, 45c.

Single Peony Collection.

One of each of the three Single Peonies described above for \$1.00, or sent prepaid for \$1.25.

Old Fashioned Peonies.

The real old-fashioned Peony of our grandmothers' time. These varieties bloom two weeks earlier than the sorts offered above, and are the first to blossom in our Northwestern country. Strong growers with large, full, double flowers and very fragrant.

Anemoniflora or *Officinalis rubra*. Anemone-shaped flowers of a beautiful brilliant red color. Each, 50c.

Atrorubra plena. Dark red, full flowers. Each, 50c.

Mutabilis. Light rose, changing to white. Each, 50c.

Rosea plena. Rose. Each, 50c.

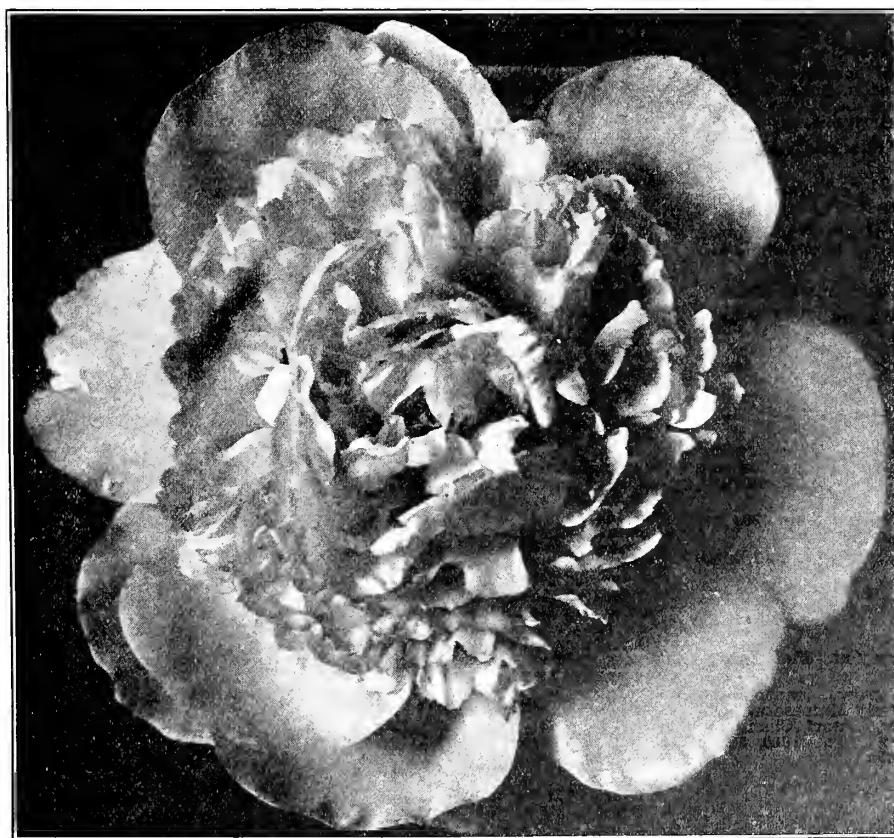
Rosea superba. Beautiful, light rose. Each, 50c.

Tenuifolia. Single, dark red, cut leaved. Each, 50c.

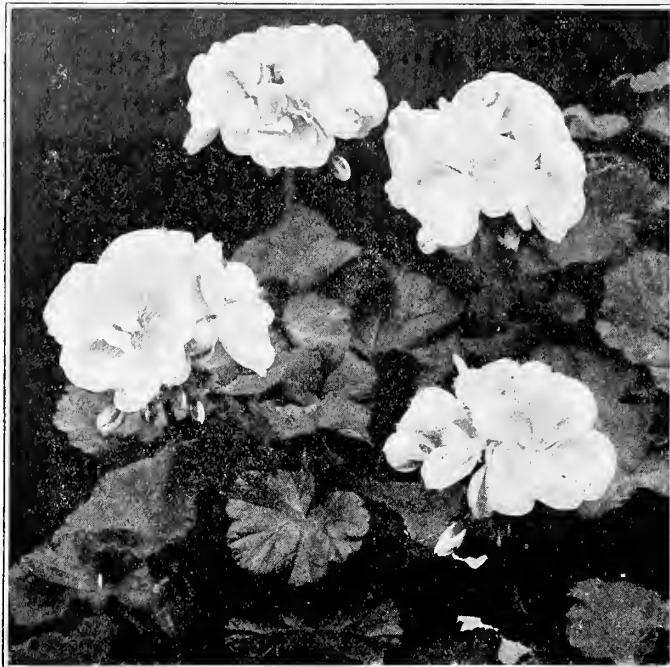
Tenuifolia flore pleno. Dark red, double, cut leaved. Each, 50c.

If wanted by mail, add 10c each, extra.

Peony Manual, by Harrison, 25c, postpaid.



Madame Ducel, silvery-pink.



Pot Grown Geraniums.

VEGETABLE PLANTS AND ROOTS.

All of our Vegetable Plants are hardy and carefully transplanted stock and must not be confused with the regular bed plants, which will endure less shipping and will not produce such strong, healthy plants as the transplanted stock.

Packing charges are included in the prices given, but purchaser must pay transportation in every instance, except as noted. Plants of all kinds should invariably be sent by express, as they will arrive at destination in less time than if sent by freight and will also be given better care in transit. On all orders for Vegetable Plants amounting to less than \$1.00 add 15c to cover packing charges.

Asparagus Roots. For description and prices on all varieties, see page 11.

Cabbage Plants. Delivery April 15th to June 1st. Ready about April 15th. Early Jersey Wakefield, Early Summer, Succession, Holland, Washington Wakefield, Copenhagen Market and Premium Late, Flat Dutch. 1000, \$5.00; 500, \$3.00; 250, \$1.85; 100, 75c; doz., 15c, (postpaid, 20c.)

Cabbage, Late. June delivery. Holland or Dutch Winter and Flat Dutch. 1000, \$3.00; 100, 50c; doz., 10c, (postpaid, 15c.)

Cauliflower Plants. Ready in April and May. Northrup, King & Co.'s Model and Snow Ball. 1000, \$10.00; 100, \$1.50; doz., 25c, (postpaid, 30c.)

Celery Plants. Delivery May and June. Golden Heart, White Plume, Golden Self Blanching, Giant Pascal and Winter Queen. 1000, \$6.00; 500, \$3.50; 250, \$1.75; 100, \$1.00; doz., 15c, (postpaid, 20c.)

Chives. Ready April 25th. Doz. bunches, \$1.25; each bunch, 15c.

Egg Plant. Ready in May and early June. Northrup, King & Co.'s Improved New York Spineless. Doz., 50c; each, 5c.

Garlic. See page 32. Per lb., 25c.

Ground Cherry, or Golden Husk Tomato. Ready May 15th. Doz., 25c, (postpaid, 35c.)

Horse Radish Roots, Common. Two-year-old, strong roots. 1000, \$6.00; 100, 75c; doz., 15c, (postpaid, 20c.)

Horse Radish Roots, New Bohemian or Maliner Kren. Root cuttings planted in April should produce fine large roots in October, five months from planting. White as snow, free from disease. 1000, \$8.00; 100, \$1.00; doz., 20c, (postpaid, 25c.)

Onion Sets. All varieties. See page 42. Yellow Bottom Sets, 20c per lb.; Red Bottom Sets, 20c per lb.; White Bottom Sets, 25c per lb.

Pepper. Ready by June 1st. Ruby King, Large Red Cayenne and Large Bell or Bull Nose. 100, \$2.00; doz., 30c.

Rhubarb Roots. See page 54. Each, 20c; doz., \$2.00.

Sage. Doz., \$1.00; each, 10c.

Spearmint Roots. Doz., \$1.00; each, 10c.

Sweet Potato. Ready by May 20th. Yellow Jersey and Red Jersey. 1000, \$7.50; 100, \$1.00; doz., 25c, (postpaid, 30c.)

Tomato Plants. We make a specialty of hardy grown, transplanted Tomato plants. Delivery in May and early June. Early Minnesota, Early Iana, Northrup, King & Co.'s Sterling, John Baer, Dwarf Champion, Beauty, Ponderosa, Golden Queen, Yellow Pear, Red Pear. 1000, \$8.00; 500, \$4.50; 250, \$2.50; 100, \$1.00; doz., 25c, (postpaid, 35c.)

Hotbeds.

Throughout the Northwest we recommend starting hotbeds about March 10th, and at intervals up to April 15th. By their use you can raise your own vegetable and bedding plants from seed.

FLOWERING PLANTS

For Bedding, Window Boxes and Vases.

Packing charges are included in prices given, but purchaser must pay transportation in every instance. Plants of all kinds should invariably be sent by express, as they will arrive at destination in less time than if sent by freight and will also be given better care and attention in transit. These plants are for delivery from May 15th to June 15th. The last week in May and first week in June is the ideal time.

GERANIUMS.

Out of 3½ or 4 inch pots.

This should not be confused with lower priced stock which has been forced in a hot-house and is too soft to be transplanted well.

We furnish well grown Geraniums that have been hardened off in a cool greenhouse. They are splendid for setting out about Memorial Day.

	Each.	Doz.	100.
Alphonse Ricard. Semi-double, vermillion scarlet	\$.20	\$2.00	\$15.00
Beaute Poitevine. Semi-double salmon	.20	2.00	15.00
Jean Viaud. Semi-double rose-pink	.20	2.00	15.00
Mme Buchner. Double snow white	.20	2.00	15.00
S. A. Nutt. Double crimson-scarlet	.20	2.00	15.00

MIXED GERANIUMS.

All Colors.

First Size.	Selected.....	.20	2.00	15.00
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Large Flowering Cannas.

Should be planted about Memorial Day. For descriptions see page 91.

	Each.	Doz.	100.
Firebird. Clear dazzling red.....	\$.50	\$5.00	\$ 100.
Duke of Marlborough. Rich crimson	.20	2.00	15.00
Feuermeier. Fiery scarlet, very free blooming	.20	2.00	15.00
Hungaria. The ideal pink Canna	.20	2.00	15.00
J. D. Eisele. Brilliant vermillion scarlet	.20	2.00	15.00
Julius Koch. Splendid blood red	.30	3.00	20.00
King Humbert. Orange-scarlet; bronze foliage	.20	2.00	15.00
Pennsylvania. Vermilion scarlet, overlaid with orange	.20	2.00	15.00
Queen Charlotte. Rich pomegranate-red	.20	2.00	15.00
Prince Wied. Rich deep crimson	.20	2.00	15.00
General Merkel. Scarlet, suffused with orange	.20	2.00	15.00
Gladiator. Deep yellow, dotted red	.20	2.00	15.00
Gustav Gumpfer. Clear golden yellow	.20	2.00	15.00
Mixed Cannas. For Bedding.....	.15	1.75	13.50

BEDDING PLANTS.

For Terms and Delivery see above.

	Each.	Doz.	100.
Achyranthes. Red, green and variegated	\$.10	\$.75	\$6.00
Ageratum	.10	.75	6.00
Alternanthera. Red and green	.10	.75	5.00
Alyssum. Sweet	.05	.50	5.00
Asters. Mixed colors	.05	.25	2.00
Begonia. Vernon, for border	.10	1.00	7.00
Begonia. Rex	.35	3.50	2.00
Carnations. Marguerite		.25	2.00
Castor Beans. Ricinus	.25	2.50	
Cobaea Scandens. Blue or white	.25	2.50	
Coleus, golden, green, red and variegated	.10	.75	6.00
Dahlias. Undivided field roots	.25	2.50	
Daisy, English. Mixed		.25	2.00
Daisy, Marguerite		.15	1.50
Daisy, Mrs. Sander	.30	3.25	
Daisy, Shasta	.25	2.50	
Dracaena Indivisa	.50-.75-1.00		
Dusty Miller		.10	5.00
Gladioli. See pages 96 and 97			
Echeveria. Old Hen and Chickens		.10	1.00
Ferns, Asparagus Plumbosus	3 inch pots	.25	
Ferns, Asparagus Sprengeri	3 inch pots	.25	
Ferns, Boston	.25-.50-.75-\$1.00-\$1.50-\$2.00		
Ferns, Small, in pots		.10	1.00
Feverfew. Double pure white flowers		.20	2.00
Hanging Baskets. Artistically filled with ferns and Summer Plants		\$3.00 to 5.00	
Heliotrope		.25	2.50
Hollyhocks. Mixed colors		.25	2.50
Hydrangea. (Page 92.) French varieties, dormant roots		.50	
Ivy, English in pots		.35	3.50
Lobelia		.10	.75
Pansies. Mixed colors. 25, \$1.00; 50, \$1.75; 100, \$3.50		.50	
Petunias		.15	1.50
Phlox. Hardy (page 92)		.20	2.00
Roses. (Pages 94-95.) Dwarf hardy varieties in pots		.50	
Roses. Ramblers, in pots		.75	
Salvia. In 2½ inch pots		.10	.75
Salvia. In 3 inch pots		.15	1.25
Salvia. In 3½ inch pots		.15	1.50
Verbena		.10	.75
Vinca Minor. Green Trailing Myrtle		.25	2.50
Vincas. Green leaved		.35	3.50
Vincas. Variegated leaved		.30	3.00

PLANTS REQUIRED TO FILL A CIRCULAR BED.

DIAMETER	6 IN. APART	12 IN. APART	18 IN. APART
3 feet	28	7	
4 feet	48	12	6
5 feet	80	20	8
6 feet	112	28	
7 feet	152	38	17
8 feet	200	50	23
9 feet	256	64	28
10 feet	320	80	36

Northrup, King & Co.'s Large Flowering Cannas.

The varieties of Cannas which we offer are particularly adapted to the Northwest and are sure to give satisfaction. The plants are hardy grown—the roots being started in a cool greenhouse in January and the plants grown slowly, until they are large enough to go into 3½ or 4½ inch pots.

Very effective for bedding on the lawn, and equally good when grown as pot plants in the house or conservatory. They commence blooming soon after being planted out and flower profusely until stopped by frost. They require a deep soil, enriched with well rotted manure and bone meal. Mulch with hay or grass clippings and water freely. Our list embraces the best of the novelties and old standard varieties. Delivered from May 15th to June 15th, strong plants from 4-inch pots, which will commence to bloom in a short time.

Price. All Cannas except Firebird, Julius Koch and Mixed varieties, each, 20c; doz., \$2.00; 100, \$15.00, by express only at purchaser's expense. Six at doz. rate, 25 or 50 at 100 rate.

Canna Firebird. This is by all means the very best red-flowering, green-leaved Canna, supreme among orchid flowering varieties.

The flowers are borne in immense trusses, on strong stalks well above the leaves. They are of splendid form, round and shapely. The petals measure 2½ inches and more across. The color is a clear glistening scarlet without any streaks, spots or blotches.

Firebird has been very much admired whenever exhibited. At the Minneapolis Flower Show, visitors stopped instantly when they perceived the dazzling red blossoms. The color, so pure and clear, is really fascinating; a self color not hitherto seen in Cannas. Each, 50c; doz., \$5.00.

Red Flowering, Green Foliage Cannas.

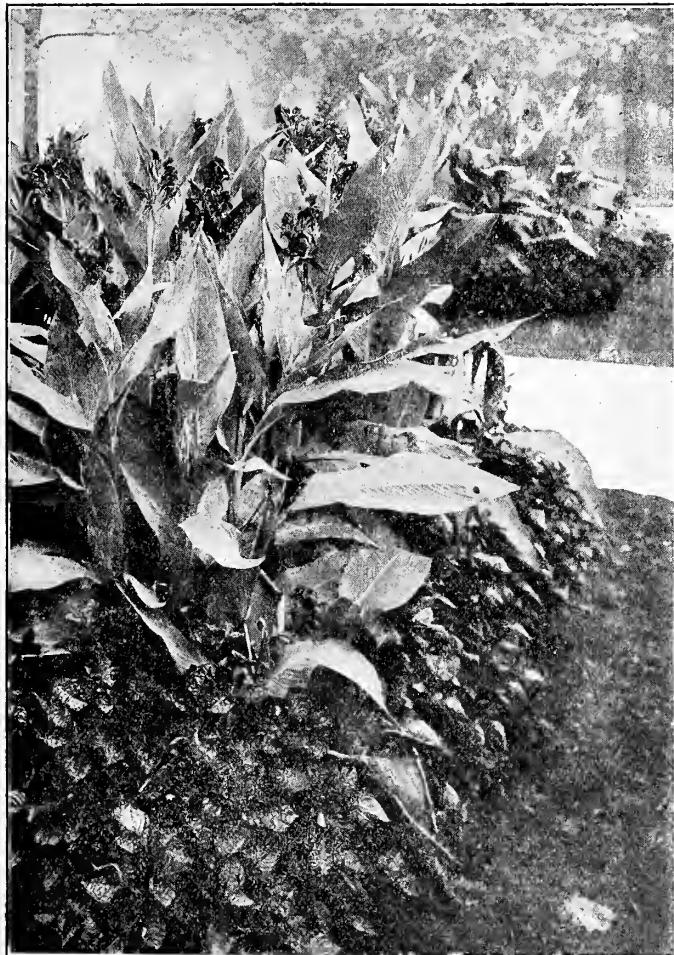
Duke of Marlborough. Flowers rich, velvety crimson; fine, shapely flowers in large, full trusses. Used in great quantities by landscape architects. Height, 4 feet.

Feuermeer. Brilliant, fiery-scarlet, exceptionally free-flowering, fine for massing. Height, 4 feet.

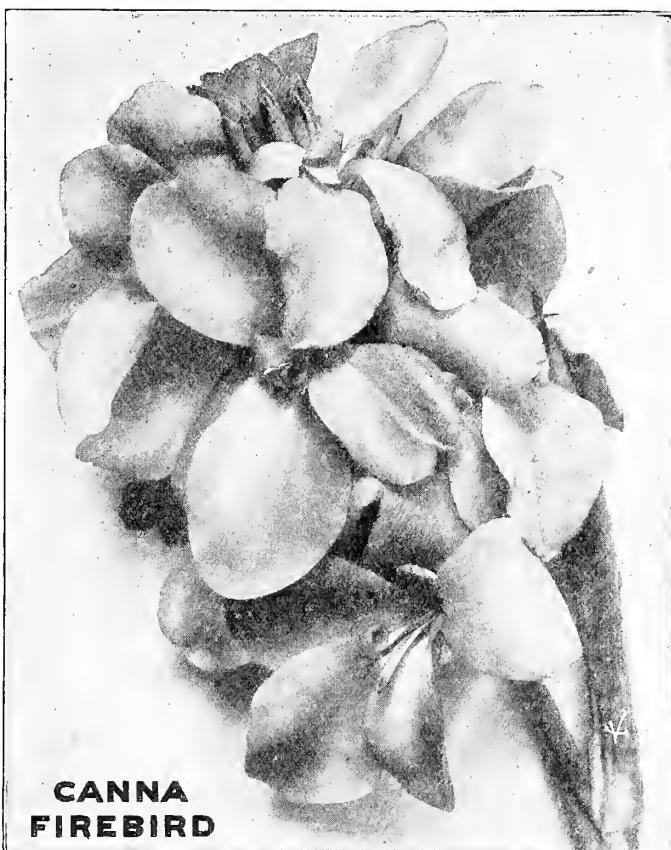
J. D. Eisele. Brilliant vermillion-scarlet, very striking. A fine bedder. Height, 5 feet.

Julius Koch. Flowers composed of four, broad, well rounded, large petals which are of the most brilliant, blood-red. A very beautiful variety. Height, 3 feet. Each, 30c; doz., \$3.00.

Prince Wied. An excellent, rich, deep crimson, free-flowering and very early variety. Height, 4 feet.



Cannas produce an elegant tropical effect.



**CANNA
FIREBIRD**

Firebird—the Best Red Canna.

Red Flowering, Bronze Leaved.

King Humbert. Gigantic trusses of orange-scarlet flowers with bright red markings make a splendid contrast with the dark, bronze foliage. The flowers are 6 inches in diameter and of very fine shape, typical of the orchid flowering class. Height, 5 feet.

Orange Shaded, Green Foliage.

Pennsylvania. Intense, vermillion-scarlet, overlaid with an orange sheen; foliage, rich green. A splendid orchid-flowered variety. Height, 5 ft.

Red Flowering, Gold-Edged Cannas.

General Merkel. Scarlet suffused with orange, base and edge of flower marbled golden-yellow. Height, 4 feet.

Queen Charlotte. Rich, pomegranate-red, bordered with a broad band of bright yellow. Height, 3 feet.

Yellow Flowering, Green Foliage.

Gladiator. One of the finest bedders; the color is a deep yellow, freely dotted with red. Height, 4½ feet.

Gustav Gumpfer. The ideal, rich yellow, bedding Canna. The large flowers are borne well above the foliage; its habit of growth is neat and uniform. The color supplies a shade which has heretofore been missing, a clear golden-yellow. Height, 3½ to 4 feet.

Pink Flowering, Green Foliage.

Hungaria. The ideal pink bedding Canna; flowers large, in good sized trusses. An unusual shade and one not found in any other variety. Height, 3½ feet.

Mixed Cannas For Bedding.

A mixture of the finest dwarf, large-flowering kinds, which will go well together, and make a magnificent bed or border of bright colors. We can thoroughly recommend this mixture. We do not care to plant out any Cannas on our own grounds and we therefore, make this special offer to close out our stock for delivery June 1st to 10th. Each, 15c; doz., \$1.75; 100, \$13.50, six at dozen rate; 25 at 100 rate.

Circular Beds. Arrange Cannas thus: In center 1 plant; 1st circle, 6 plants; 2d circle, 12 plants; 3d circle, 18 plants; 4th circle, 24 plants, each circle taking 6 more, plants to be set 18 inches apart.

Fall and Winter Treatment. Do not lift plants until after a sharp frost, then take up with as much soil as possible, being careful not to break or damage the roots. Cut off half the tops and store in shed or cellar. When the remaining foliage becomes perfectly dry it may be cut off to a height of 3 inches, then the roots, still with the dirt on them, should be stored where the temperature will be from 40 to 45 degrees. The roots should never be allowed to freeze nor entirely dry up. The roots may be placed on a rack or even on a dry cellar floor. Cover with a layer of straw to hold the moisture. In January or February clean the roots, divide into pieces with 3 or 4 eyes each and start in flats or pots in house or conservatory. We do not advise planting Cannas or other bedding plants outdoors, in this latitude, much before Memorial Day.

Hardy Perennial Phlox.

We have attempted to illustrate here a head of Phlox, but unfortunately, small pictures can do but scant justice to such a subject. With this flower it is not the single blossom which shows to best advantage but the whole mass, producing a blaze of color which stands out strikingly against a dark background of shrub or vine.

The very name—"Phlox" means flame. What could be more appropriate?

This plant is a native of North America and that is doubtless why it does so well here. Everyone succeeds in growing it and those who like cut flowers appreciate the many showy heads borne on long stiff stems.

Culture. Phlox plants grow larger year after year. As the plants become stronger the blossoms increase in number and size, reaching their highest development about the third or fourth year.

On this account they require liberal "feeding" and do much better when well composted manure is forked in around the base each Fall, and bone meal in the Spring. After 4 or 5 years the clump is likely to become rootbound so it is well to divide each one, having several eyes or growing shoots on each division. The outside root-shoots should have extra good care since they will produce the best plants.

As soon as the plants are received from the nursery dip each one in a pail of liquid mud. Then plant 9 inches apart in deeply trenched, well enriched soil, being careful to spread out the roots and firm the earth so it will take a hard pull to uproot them. Lastly, use compost or other mulch around the crown to preserve soil moisture. A fairly open situation suits Phlox best, too much shade stunts growth, too much sun fades out the richer colors. Liberal watering every evening during the blooming period improves the blossoms. These should be removed as soon as they wilt to prolong the flowering season.

For Winter protection, as soon as the ground freezes hard, lay on crowns an evergreen branch with several inches of leaves or straw loosely piled on top. About the middle of March remove one-half this litter and loosen up the rest—removing it gradually as the sun becomes warmer. Water or ice remaining on the plant crowns for any length of time is sure to destroy them. In our list of Phlox we offer the very best varieties, ranging in color from white or lilac-gray to fiery reds and deep purple. Many show combinations and lovely shades unknown in any other flowers. All bloom between July and September. For best effect, mass each color separately.

Our Special Offer. Strong one-year-old roots, each, 20c; doz., \$2.00; 100, \$14.00; by express at purchaser's expense. If wanted by mail add at the rate of 5c each for postage.

Superb Collection. One of each of the 12 choice varieties, for \$2.00; postpaid, \$2.50. Any six varieties, purchaser's selection, \$1.25, postpaid.

Bacchante. Brilliant red, with crimson-carmine eye.

B. Comte. Medium. Brilliant French purple with crimson-carmine shadings. The finest dark colored Phlox grown today.

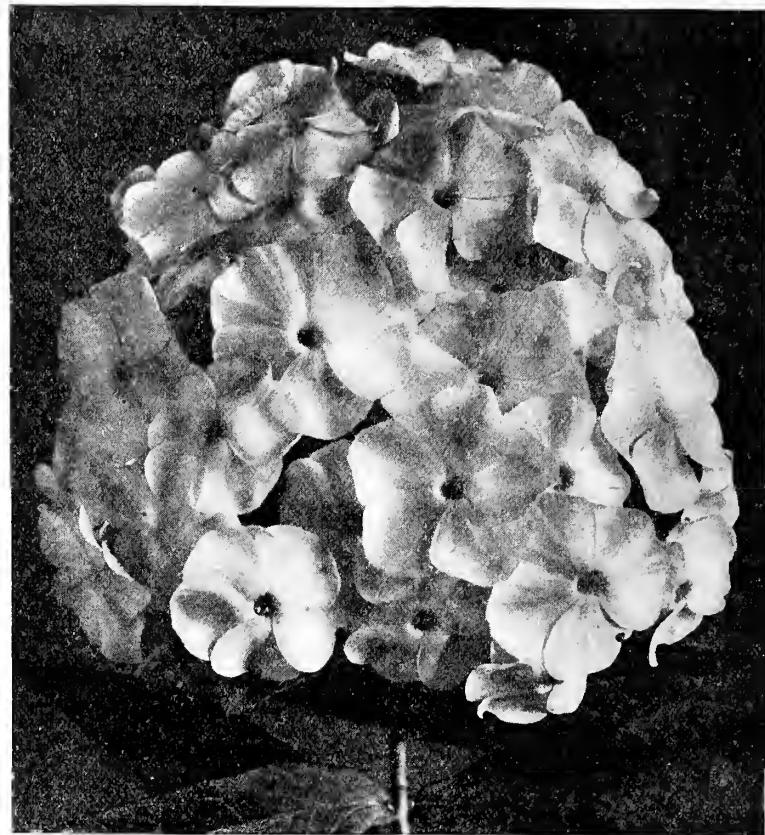
Europa. Tall. A white variety, with very decided crimson-carmine eye; the individual flower as well as the trusses are very large, entirely distinct; of remarkably sturdy, erect habit.

Frau Anton Buchner. The finest white variety yet introduced, having the largest truss and individual flower.

Mme. Paul Dutrie. Medium. A delicate lilac-rose, reminding one of some of the beautiful soft pink Orchids. The flowers are very large and borne in panicles of immense size.

Pantheon. Bright carmine-rose; very effective.

R. P. Struthers. Tall, rosy carmine with claret-red eye; fine



A single head of Hardy Phlox.

Rynstrom. Tall. Deep salmon-rose, not unlike Paul Neyron Rose, very fine for massing.

Siebold. Tall. Vermilion-red, overlaid with orange-scarlet; crimson-red eye.

Von Hochberg. Richest crimson-purple.

Widar. Medium. A light reddish violet, with very large white center which intensifies and illuminates the color.

W. C. Egan. One of the largest flowered varieties in cultivation, color effect a delicate, soft pink.

New Hydrangeas for Pot and Tub Culture.



New Hydrangea used for porch decoration.

These beautiful Hydrangeas in lovely shades of pink and white are not hardy like the common ones but make splendid subjects for porch and lawn decoration when grown in pots, vases or tubs. They are also very satisfactory in the window garden where their glossy foliage is attractive even when the plant is not in bloom.

They require rich loam soil, liberal watering and occasional application of bone meal or garden fertilizer. Before applying remove an inch of surface loam, sprinkle a dessert-spoonful of bone meal on the earth below and replace top soil.

In some soils these varieties naturally flower blue. Producing this color artificially is sometimes difficult, owing to the natural chemicals in the water, etc. Sometimes steel filings are used for this purpose, or one-half pound of alum broken into small pieces and mixed with each bushel of soil.

Give the plants full exposure to the sun except when in flower, at which time slight shade will prolong their blooming period.

On the approach of freezing weather the plants should be gradually allowed to become dormant and dry off.

Remove them to a light cool cellar or similar place protected from frost, but cool enough so that new growth does not start. Water just enough to keep roots from drying up. Early in the Spring bring them to a sheltered porch and increase the supply of water, again giving full exposure as the weather becomes settled. If it is desired to winter them in the window garden continue to water them freely so as to keep up the growth.

For hardy Hydrangeas see pages 106 and 107.

We recommend shipment by express—purchaser to pay charges.

Avalanche. Large pure white, fine form, very free flowering. Each, 50c.

Fraicheur. A delicate shade of rosy-white. Each, 50c.

Hortensia Standards. Trained to a tree-like form with a single stem 12 to 15 inches high. Pinkish-white. Each, \$1.00.

Japonica. A popular Japanese variety with gorgeous flowers of a deep rose shade. Each, 50c.

La Lorraine. Very large crimped flowers, first pale then changing to deep pink. Each, 50c.

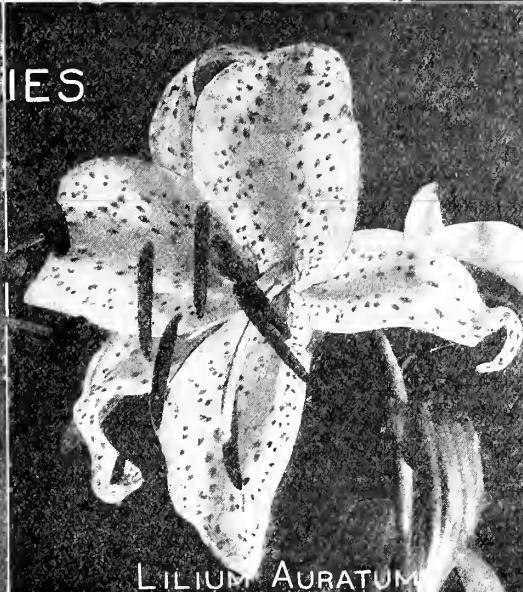
Lillie Mouilliere. One of the latest introductions. Deep pink. Each, 75c.

Mlle. Renee Gaillard. Large panicles of milky white, irregularly dentated flowers, especially good for growing indoors. Each, 50c.

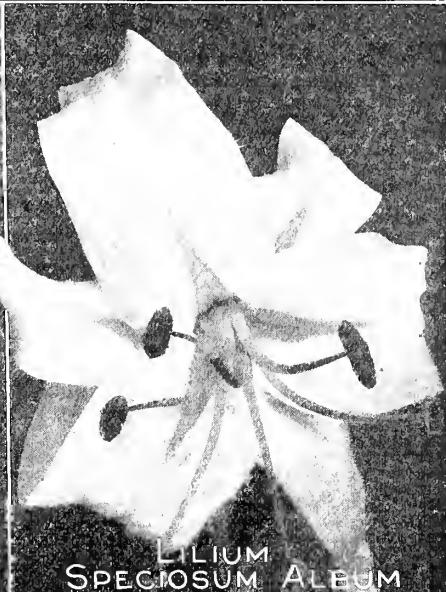
Otaksa. The variety so extensively used for Summer porch decoration, producing immense pink flower heads throughout the Summer. Each, 50c.

HARDY

LILIES

LILUM
SPECIOSUM RUBRUM

LILUM AURATUM

LILUM
SPECIOSUM ALBUM

The Speciosum or Lancifolium varieties form the most popular class of Japanese Lilies, their hardiness, free growth and branching habit rendering them most valuable for permanent beds and borders. They grow from 3 to 4 feet in height and continue in bloom from August until frost. Plant in rich, well drained soil, with a handful of sand under each bulb.

Lilium Auratum. The beautiful gold banded Lily of Japan and one of the grandest plants in cultivation. No species ever had so much general favor. A bed of 100 Auratums will produce flowers for a longer time than an equal number of any other of the Lily species. The flowers which are often ten inches across are thickly studded with yellow and crimson spots, while in the center of each petal there is a golden band fading at its edges into the white. Bulbs should be planted as soon as the frost is out of the ground, the earlier the better. Plant in fine, rich, well-drained soil. Bulbs, each, 35c; doz., \$3.50. If wanted by mail add 5c each, extra.

Lilium Canadense. WILD YELLOW LILY. Flowers vary in color—red and yellow. Grows 2 to 5 feet high, and is a most hardy species. Nice to plant among shrubbery, and does quite well in shade. June and July. Each, 15c; doz., \$1.50.

Lilium Elegans, Incomparable. Perfectly hardy, succeeds most everywhere; flowers large and showy, pale scarlet. Bulbs, each, 15c; doz., \$1.50.

Lilium Longiflorum. Pure white, trumpet-shaped, flowers in June or July, very hardy. Can also be grown as a pot plant. Bulbs, each, 25c; doz., \$2.50.

Lilium Speciosum Album. Pure white flowers with a greenish band through the center of each petal. They are of great substance and very fragrant. One of the best for general culture. Bulbs, each, 35c; doz., \$3.50. If wanted by mail add 5c each, extra.

Lilium Speciosum Melpomene. Words cannot describe the beauty of this variety. Frosted white, spotted, clouded and bordered with pinkish crimson. Petals deeply recurved and widely bordered. Each, 35c; doz., \$3.50. If wanted by mail add 5c each, extra.

Lilium Speciosum Rubrum or Roseum. No words can overstate the brilliant beauty of these famous Japanese Lilies. The six broad white or pink petals are thickly dotted with rose or crimson spots, while the graceful form and brilliant color make them very effective and desirable. Especially hardy. Each, 35c; doz., \$3.50. By mail, 5c each, extra.

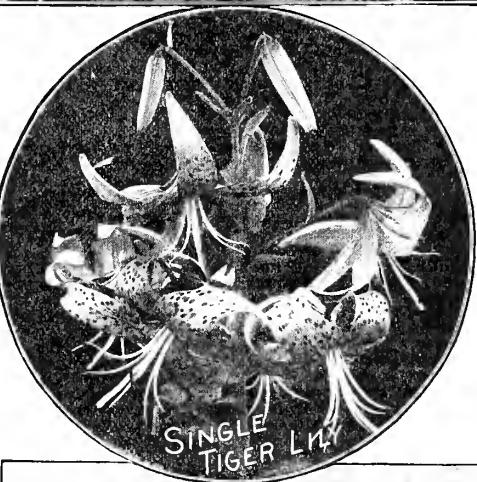
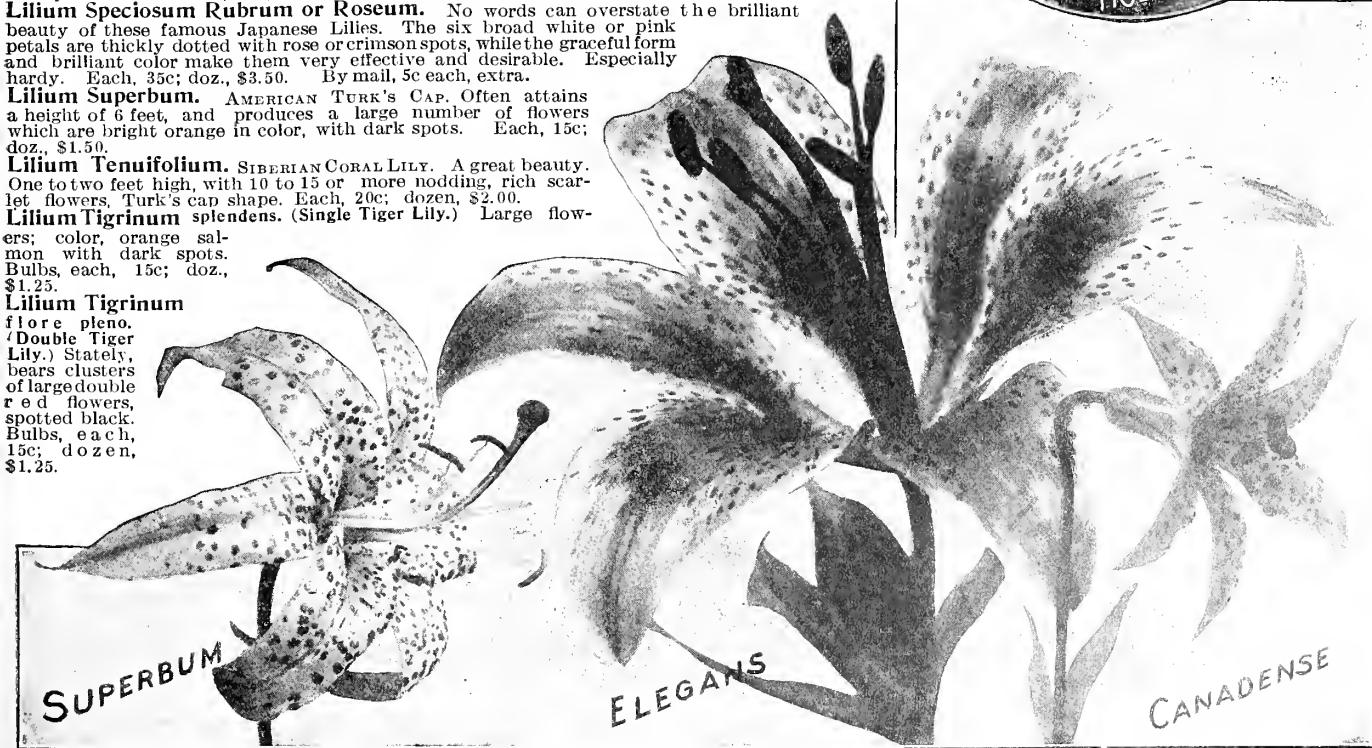
Lilium Superbum. AMERICAN TURK'S CAP. Often attains a height of 6 feet, and produces a large number of flowers which are bright orange in color, with dark spots. Each, 15c; doz., \$1.50.

Lilium Tenuifolium. SIBERIAN CORAL LILY. A great beauty. One to two feet high, with 10 to 15 or more nodding, rich scarlet flowers, Turk's cap shape. Each, 20c; dozen, \$2.00.

Lilium Tigrinum splendens. (Single Tiger Lily.) Large flowers; color, orange salmon with dark spots. Bulbs, each, 15c; doz., \$1.25.

Lilium Tigrinum

flore pleno.
(Double Tiger
Lily.) Stately,
bears clusters
of large double
red flowers,
spotted black.
Bulbs, each,
15c; dozen,
\$1.25.

SINGLE
TIGER LILY

ROSES—Dormant Plants.

DWARF HARDY HYBRID PERPETUALS.

Pot Grown Roses for late planting at the same prices.

We offer strong, two-year-old field grown plants, which under ordinary conditions should produce satisfactory flowering results the first season. Each, 40c; doz., \$4.00, 100, \$30.00. One of each of the twenty-one favorites for \$6.25. By express only.

Anna de Diesbach. Clear, bright carmine-pink, very large, full and finely shaped, fragrant and a free bloomer.

American Beauty. Rich red, passing to crimson, very delicately veined and shaded and surpassingly fragrant.

Baron de Bonstettin. Velvety blackish crimson, very large, double, fragrant flowers.

Baroness Rothschild. Pale, satiny rose, very large.

Black Prince. Deep blackish crimson, large, full and globular, very hardy and free-flowering.

Frau Karl Druschi. The ideal hardy white Rose, pure in color, perfect in form; strong grower and remarkably free-flowering. General Jacqueminot. Brilliant scarlet-crimson, an old favorite and one of the best.

Gloire Lyonnaise. White, tinted with yellow; large, full and of good shape; very distinct and pleasing.

Gruss an Tepitz. Four to five feet high; vivid, dazzling, fiery crimson; sweetly fragrant, long stems.

J. B. Clarke. Intense scarlet, shaded crimson-maroon, very dark and rich, fragrant, petals large, deep and smooth; growth strong.

Jonkheer Mock. A robust, free grower, bearing glorious flowers in two color tones, fiery red within and silvery white without.

Jules Margottin. Glossy pink, a very beautiful Rose.

La France. Silvery rose with pink shades and satin-like petals of great beauty. Large, symmetrical, deliciously fragrant blooms from June till frost.

Magna Charta. Bright pink, suffused with carmine, a beautiful Rose; strong, vigorous grower.

Mrs. R. G. Sharman Crawford. Deep rose-pink, outer petals shaded with pale flesh.

Mrs. John Laing. Soft pink, of beautiful form, exceedingly fragrant and remarkably free-flowering.

Paul Neyron. Dark rose, of enormous size.

Paul Kruger. Beautiful pink, full and showy.

Persian Yellow. Deep yellow, large and full.

Prince Camille de Rohan. Deep, velvety crimson-maroon, shaded scarlet; a magnificent dark Rose.

Ulrich Brunner. Bright cherry-red; flowers large and full, a good strong grower which always does well. See prices above.

HYBRID TEA ROSES.

Semi-hardy, require protection during the Winter in this latitude. Strong two-year-old field grown stock. Each, 35c; doz., \$3.50.

One of each of six varieties for \$1.75.

Clothilde Souper. A fine variety for bedding or pot culture; medium size and very double, white shading to deep pink at center; a profuse bloomer and strong grower, fragrant.

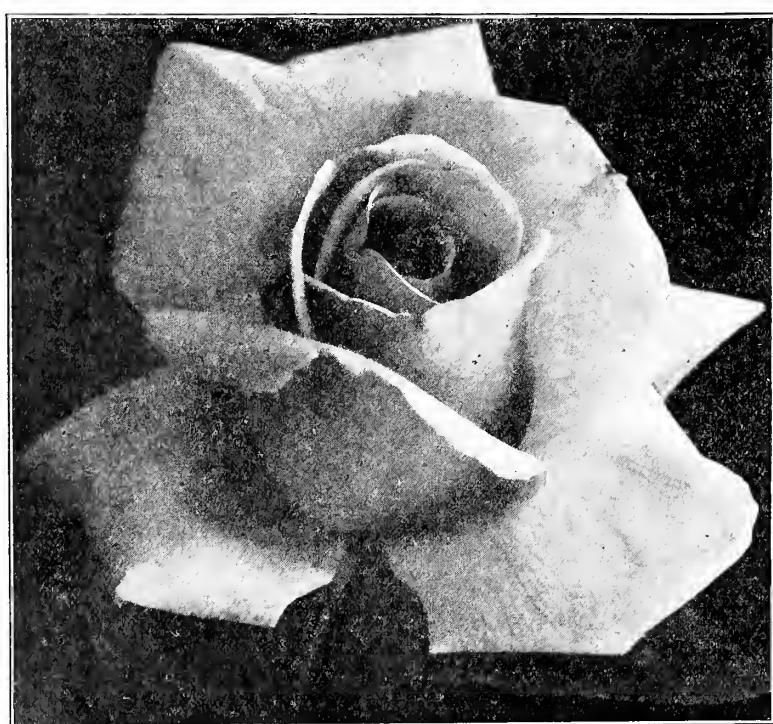
Etoile de France. A brilliant shade of clear red-crimson velvet, centering to vivid cerise; large flowers on long, stiff stems, vigorous, free-blooming.

Killarney. Brilliant sparkling pink with large, pointed buds, broad, wax-like petals and enormous semi-full flowers of exceeding beauty.

Papa Gontier. Dark crimson, passing to glowing crimson, large buds and deep, open, semi-double flowers. A constant bloomer and vigorous grower.

Richmond. Scarlet-crimson of a most brilliant hue; long pointed buds and striking flowers on tall, erect stems; a rapid grower and constant producer.

White Killarney. A pure white sport from the pink Killarney.



Killarney Rose, brilliant pink.



Frau Karl Druschi, the ideal white Rose.

HARDY CLIMBING OR PILLAR ROSES.

The following varieties are very desirable for training over arbors, trellises and verandas, also valuable as screens for unsightly objects, as buildings, fences, walls, etc. All of the Rambler Roses are strong, vigorous and perfectly hardy. Pot Grown Roses for late planting at the same prices. Extra strong two-year-old stock; each, 50c; 10, \$4.50; by express only at buyer's expense.

Baltimore Belle. Pale blush, variegated carmine, rose and white; flowers in beautiful clusters, the whole plant appearing a perfect mass of bloom.

Crimson Rambler. Since the introduction of this wonderful variety, climbing Roses have gained in popularity every season. This variety commands the admiration of all, by its gorgeous flowers; each cluster a bouquet in itself.

Dorothy Perkins. A beautiful companion to the Crimson Rambler, color, a handsome shell-pink, which holds a long time without fading. The flowers are borne in clusters of from ten to thirty and are very double. The buds are also remarkably beautiful. Very hardy and vigorous with deep green foliage.

Debutante. Light pink, passing to white, double blooms in clusters, with delicate perfume; dark, glossy foliage.

Hiawatha. Glowing ruby-crimson, with a clear white eye; single flowers in clusters, light green, glossy foliage.

Lady Gay. Cherry-pink, fading to soft white. The flowers, in large, loose trusses, together with the bud and foliage, form a mass of beauty from base of vine to tips of branches. See illustration on page 95.

Minnehaha. Similar to Dorothy Perkins, but paler in color.

Prairie Queen. Bright, rosy red frequented with white stripes. Foliage large and quite deeply serrated. Blooms in clusters; one of the finest.

Sweetheart. Buds of bright pink, shading to a soft white in the full blooms; very double and fragrant.

Veilchenblau. Produces immense panicles of blooms, opening reddish lilac, changing to amethyst and steel-blue. Recently introduced from abroad. The nearest approach to a blue Rose.

Wedding Bells. White with soft pink.

Wichuriana. A low-trailing species suitable for covering porches or rough ground, producing single flowers in profusion after the June Roses are past. The stems creep on the earth almost as close as Ivy. A distinct and valuable variety from Japan. Pure white.

Wichuriana Rubra. Same as above except flowers are bright red tinted orange-red.

All roses, 6 at dozen rate; 25 at 100 rate.

Pruning and Planting.

We advise pruning Roses early in the Spring. Pruning should be done while the plants are dormant, and before the sap begins to flow. The chief reasons for pruning are to encourage the formation of a symmetrical plant and also more flower buds. Plants of delicate habit and weak growth require severe pruning; plants of vigorous growth should have the shoots only moderately shortened, but the branches well thinned out. If strong growing plants are closely pruned, a great growth follows with very few flowers. Hardy Hybrid Perpetuals require a second pruning to promote the formation of flower buds later in the season.

We consider April and early May the best and safest season to plant in all the Northwestern States.

Pot Grown Roses for late planting at the same prices.

ROSES—Dormant Plants.

All Roses offered on this and the opposite page are dormant stock and cannot be shipped after the leaf buds start. They should be planted in April or early May. For the convenience of our customers who cannot plant early, we offer pot-grown roses at the same prices. Pot-grown roses can be safely transplanted up to June 10. Our Roses are ready in April. Please send your orders early.

HARDY MOSS ROSES.

Price, Each, 40c; doz., \$4.00. By express at purchaser's expense. Strong, vigorous and perfectly hardy. Prefer rich ground.

Blanche Moreau. Flowers are produced in clusters, and are large, full and sweet; color is pure white, both flowers and buds have an abundance of lovely deep green moss.

Crested. Pink, finely crested, very distinct from all others.

Eugene Verdier. Red. Very beautiful and attractive.

Madame Moreau. Red. A desirable variety.

William Lobb. Carmine, bright. Deserves a place in your garden.

HARDY SUMMER ROSES.

Austrian Copper. Single flower, brilliant coppery red. Each, 50c.

Harrison's Yellow. Strong, vigorous and hardy. Golden yellow, semi-double. Each, 50c.

Madame Plantier. Pure white, large and double; a free and continuous bloomer. Used extensively for cemetery planting. Each, 35c.

Persian Yellow. An old favorite, very free-flowering, deep golden yellow, semi-double. Each, 35c.

Rosa Rugosa Rubra. A valuable hardy Rose, forming vigorous bushes four to six feet in height. Thrives everywhere and blossoms throughout the Summer. Attractive in Autumn because of its large, brilliant red seed pods. Flowers, rosy crimson. Each, 35c.

Rosa Rugosa Alba. Same as above except flowers are pure white. Each, 35c.

MONTHLY ROSES.

Not hardy outdoors in the North. Suitable for pot culture. Each, 35c; doz., \$3.50; by express at purchaser's expense.

Ducher. Pure white. Long bud of good form and very vigorous.

Fellemburg. Rose. Strong grower.

Hermosa. Cup-shaped, finely formed and full flowers of soft, deep pink, everblooming and beautiful.



Lady Gay Rose. See Page 94

BABY RAMBLER ROSES.

This charming class of Roses is the sensation of the last few years. They represent the triumph of productive effort among Rose growers in bringing the vivid colors, prodigal freedom and beautiful clustering form of the grand outdoor Rambler Roses into the house for Winter decoration.

Baby Rambler (Madame Norbert Levavasseur). The Crimson Rambler in dwarf form, with the same clear, brilliant, ruby-red color. Hardy and healthy everywhere, attaining a height of twenty inches, and blooming in profuse clusters until frost and throughout the Winter if taken indoors. Each, 35c; doz., \$3.50.

Baby Dorothy (Maman Levavasseur). A prolific producer of pure pink flowers, with all the good qualities of Crimson Baby Rambler. Each, 35c.

Jessie. A clear, glowing red. Of vigorous, erect growth and very free-flowering. Each, 50c.

Katharina Zeimet. Pure snow-white, double blooms in profuse clusters, making a sheet of white color. A compact, bushy grower of dwarf habit; foliage dark, glossy and finely cut. Each, 35c.

Mrs. W. H. Cutbush. A new baby Rose of an entirely distinct color, light pink. The flowers are borne in huge trusses throughout the entire Summer and Autumn and completely cover the entire plant. Each, 35c.

Baby Rambler Tree Rose. Grafted on 12 to 18 inch stems. Very desirable for pot culture on porches or pillars. Each, 50c.

SOIL AND FERTILIZER FOR ROSES.

Best results are obtained when Roses are planted where they will have full sunlight; even in a slightly shaded place they never do so well. Prepare the soil to a depth of at least a foot, and thoroughly mix with not less than two inches of well-rotted stable manure; or if unobtainable, bone meal should be put on at the rate of 10 lbs. to every 100 square feet of surface; this should be thoroughly mixed in the soil to the depth of the bed.

Fertilizers for Roses on pages 154 and 155.

INSECTS AFFECTING ROSES.

Green Fly. (Aphis). Colonies of these attack the young growth and suck the juice of the plant. Spray with tobacco solution or dust with tobacco powder after wetting the plants. Nico-Fume Liquid is especially effective.

Rose Slug. A light green worm that eats the leaves. Apply fish-oil soap, 1 lb. dissolved in 8 gallons of water; Paris Green, 1 oz. to 10 gallons of water or arsenate of lead.

Mildew. This grayish-white film on the affected leaves can be controlled by spraying with Bordeaux Mixture, 1 pint in 6 to 8 gallons of water.

Insecticides for Roses on page 149.



BEAUTIFUL GLADIOLI

Most Popular Cut Flower Of The Day, Now Within The Reach Of All.

Gladioli are highly ornamental whether growing among shrubs or in garden rows. If they are cut as the first bud expands they last a week or ten days in the house and every bud opens perfectly. What could be more decorative than a bunch of these great spikes with their two or three foot stems? No flower can match them in ease of culture or diversity of color.

The Gladioli are the most attractive of summer-flowering bulbs. They bloom just when the garden needs lighting up. Their bright spikes help

the perennial border especially, which so often lacks color at mid-summer before its autumn revival. When used in the rose bed their season follows that of June roses.

They are not delicate exotics needing protection from Summer's hot winds and scorching sun, but strong and lusty growers. Yet with all their sturdiness, many Gladioli have flowers as delicate as Orchids, as exquisite as the humming birds which dart among their brilliant blossoms.

We advise our customers to plant Gladioli in masses since they are always most effective when grown in groups of twenty-five or fifty bulbs of a kind or color, either in the perennial or shrubby border. At these special prices on quantities, one can well afford to plant them extensively.

Albion. A Beautiful White. tinge of carmine deep in the center; fine spike and strong grower; large flowers. Each, 6c; doz., 60c; 100, \$4.00.

America. An Exquisite Delicate Pink. blossoms, of very robust growth. One of the best for cutting. Each, 5c; doz., 45c; 100, \$3.00.

Augusta. Popular White. anthers. Each, 6c; doz., 50c; 100, \$3.50.

Baron Hulot or Blue King. Rich Deep Violet. A fine, dark shade, bordering on blue. Should be planted with a light variety for contrast. Each, 6c; doz., 50c; 100, \$3.50.

Blushing Bride or Willy Wigman. Delicate Rose. Rose with soft carmine blotch. Each, 6c; doz., 60c; 100, \$4.00.

Brenchleyensis. Vermilion-Scarlet, Late Blooming. An old standard sort, one of the best where one shade of good scarlet is desired. Each, 5c; doz., 45c; 100, \$3.00.

Empress of India. Deep Maroon. A rich velvety shade, very decorative. Each, 6c; doz., 50c; 100, \$3.50.

Faust. Deep Crimson. A rich, velvety color shading on the lower petals; splendid, large blossom. Each, 6c; doz., 60c; 100, \$4.00.

Glory of Holland. Pure White. Pure white with lavender anthers; blooms midseason. Each, 6c; doz., 60c; 100, \$4.00.

Halley. Salmon-Pink, Shaded Yellow. The predominating color of the flowers is delicate pink with a slight roseate tinge. The lower petals bear a creamy blotch with a bright red stripe through the center, producing a superb effect. Each, 5c; doz., 45c; 100, \$3.00.

Hollandia. Yellow-Salmon. An Unusual Shade. A rare color in Gladioli, very attractive to use with Niagara for cut flowers. One of the finest late varieties. Each, 6c; doz., 60c; 100, \$4.00.

Lily Lehman. Pure White, Frilled Edge. to a rose tint. Especially effective when planted near America or Panama. Each, 6c; doz., 50c; 100, \$3.50.

Mrs. Frances King. Most Popular Light Scarlet. Of exceptional value for cut flower use. Separate flowers often measure 5 inches across with 5 flowers open at once. Each, 5c; doz., 45c; 100, \$3.00.

Niagara. Primrose-Yellow. Magnificent, large flowers; soft primrose-yellow, tinged rose pink in the throat and penciled carmine. Each, 10c; doz., \$1.00; 100, \$7.00.

Panama. Finest New Pink. It resembles its parent, America. The flower spike is exceptionally long. A matchless variety in its class. Each, 6c; doz., 60c; 100, \$4.00.

Pink Beauty. Pale Claret-Pink, Shaded Deeper. Bright rose, darker blotch on lower petals, early. Each, 4c; doz., 40c; 100, \$2.75.

Principes. The Amaryllis-Flowered Gladiolus. Splendid, late flowering variety; flowers of enormous size, 5½ inches in diameter and a dazzling scarlet-red color with a small white band on each lower petal. Spikes produce 12 to 15 flowers and grow 4 feet in height. Each, 6c; doz., 50c; 100, \$3.50.

White Excelsior. Excellent, pure white variety, slightly tinted throat. Fine for cutting. Each, 6c; doz., 50c; 100, \$3.50.

Culture. The Gladiolus thrives in a sunny location, protected from wind. It appears to best advantage when planted among Peonies, shrubbery or in masses or rows bordered with some lower growing plants such as Candytuft, or Bachelor's Buttons. These make a pleasing contrast with the Gladioli.

Gladiolus bulbs will grow in any good garden soil, but do much better when the latter has been enriched with well rotted manure. If the bulbs are planted at intervals from April to June the blooming period will extend from July until frost. A trench should be dug five inches deep and an inch of sand placed in the bottom to absorb surplus moisture. Then set the bulb (flat or hollow side down) in the sand.

For earliest blossoms, draw 2 inches of soil over the bulbs at first, replacing the rest when the shoots appear. As the leaves develop, more earth should be drawn up around the base, to furnish support for the stalk. Keep the bed free from weeds and give plenty of water, especially during the blooming period. When the flower buds appear they should be staked.

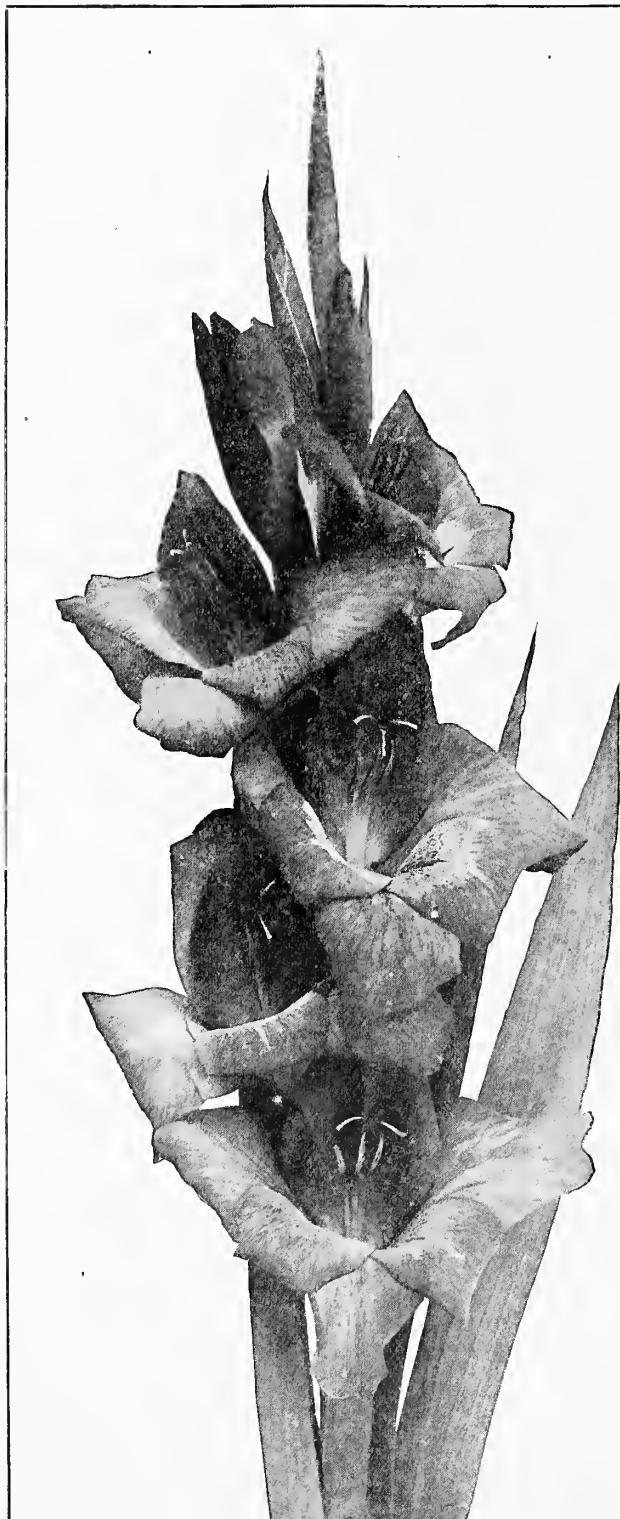
For Cut Flower Use. The spike should be cut as soon as the first flower opens on the stalk, preferably before the dew is off in the morning but never in the heat of the day. Cut the stem about 9 inches above the ground and with as little foliage as possible. The foliage is needed for the development of the new bulb. Place the cut flowers in a deep vase, with at least 8 inches of water. Remove the faded blossoms, cut a little off the stem and change the water daily. Treated in this way the buds will open perfectly.

Before the ground freezes lift the bulbs, cut off half the foliage and remove to a cool shed or cellar. Here they should be spread out to dry, leaving plenty of air space between all bulbs and tops to prevent mould. A convenient method is to stand them up in flats which are then piled in tiers.

After the tops dry up they should be cut off with a sharp knife or pruning shears. At this time also, the bulbs may be separated and the small side growths, or bulblets removed. The latter may be handled like the big bulbs. Then the bulbs are placed in paper bags, sawdust or sand to prevent them from becoming too dry. Lastly, remove to a storage room having a temperature of about 35 degrees to prevent sprouting.

If by mail add 5c per dozen, extra to above prices.

Gladiolus Halley.



NORTHRUP, KING & CO.'S GLADIOLUS MIXTURES.



Northrup, King & Co.'s

"Sterling" Mixture of Gladioli.

Amateurs with limited space for Gladioli will find these most satisfactory. They include white and light tints, pink and red.

This is an extra choice mixture of all colors and many types. Only large-blooming bulbs are included. It has been prepared for the sole purpose of giving a first class combination of varieties at a reasonable price. It contains some of the finest named Gladioli in addition to the most beautiful new seedlings and latest introductions. The spikes grow tall and erect. Orchids cannot surpass them in their varied and delicate shades, markings and blendings—pink, rose, scarlet, red, white and light tints. Some are self-colored, some with beautiful, mottled throats. Nothing finer has ever been offered at the price. Doz., 40c; 100, \$2.50.

Primulinus Hybrids—New Race.

These Hybrids range in color from pale sulphur-yellow to the deepest chrome-yellow and all the charming shades of orange, including some almost white. The flowers are gracefully arranged on long, slender spikes; from a decorative standpoint they are simply exquisite. Doz., 75c; 100, \$5.00. If by mail, add 5c per dozen, extra.

Giant Flowering Mixed Gladioli.

Splendid for planting in masses and for showy backgrounds. These are grown from seed of the finest strains and are unexcelled for variation of color, well formed flowers and healthy bulbs. They contain a large proportion of show flowers. In this mixture all shades of color are well represented but by careful selection pink and cherry carmine now outnumber the darker shades, while white grounds are also prominent. They send up beautiful, large, flower stalks four or five feet high. Many branch freely, so that one stem produces three or four blooming spikes. The flowers are of great size, frequently seven to nine inches across. We recommend using these chiefly for massing and producing showy backgrounds as the stiffer form of this type may not appeal to some gardeners so much as the more graceful spikes of the Sterling Mixture. Each, 5c; doz., 45c; 100, \$3.00.

Excelsior Mixture.

A selected strain of hybrid seedlings from very choice parent stock. We can recommend this mixture as being one of extra good value. Light shades predominate. 40c per doz., 100, \$2.75.

Fine Mixed Gladioli.

As the name signifies, this is a fine mixture and recommended to our customers who desire to make a brilliant show in the garden at a small cost. Plant them freely, and you will be delighted with their fine colors. Shades of red and pink in many combinations are prominent in this mixture. Doz., 30c; 100, \$2.00. If by mail, add 5c per dozen, extra.

Lemoine's Butterfly Hybrids.

This is an extra fine mixture of spotted and mixed blossoms. The gorgeous colorings and gay markings have caused these to be known as the "Butterfly Gladioli." Yellow, crimson, white, brown and pink are blended together to produce the most striking effects. Besides their gay colors and odd markings, they bloom two or three weeks earlier and are in full perfection before other sorts appear. Each, 4c; doz., 35c; 100, \$2.50.

Childsi Mixed Gladioli.

This mixture includes a complete range of color but there are fewer dark shades and more of the pink and blush tints in addition to the pale carmine and white. The flowers are extra large, strong growers. The bulbs in this mixture are very large and fine. Each, 5c; doz., 45c; 100, \$3.00.

White and Light Shades.

Very desirable for cut flowers and exquisite indoor decorations. These are shades especially in demand by florists. Doz., 75c; 100, \$5.00.

Pink and Rose Shades.

Many shades from faint tints to deep rose and cherry, all very attractive colors. Doz., 50c; 100, \$3.50.

Scarlet and Red Shades.

Splendid, bold colors that are especially desirable for use in front of shrubbery or any place in the garden where some bright contrast is needed. Doz., 45c; 100, \$3.00.

Orange and Yellow Shades.

Unusual and charming shades of Gladioli. Fine for planting with lighter varieties for display bedding. Doz., 85c; 100, \$6.00.

Violet and Purple Shades.

Rare colors of extreme beauty, rich blues, velvety purple, etc. Should be planted with light shades for contrast. Doz., 60c; 100, \$4.00.

Collection A.

One of each of the Eighteen Selected Gladioli listed on the opposite page, \$1.00, prepaid. A splendid opportunity to secure a beautiful collection.

Collection B.

Six of each of the Eighteen Selected Gladioli, described on the opposite page, 108 bulbs in all, \$5.00, by express at purchaser's expense; or prepaid to any part of the U. S. for \$5.75.

Collection C.

Twelve of each of the Eighteen Selected Gladioli described on the opposite page, 216 bulbs in all, \$9.50, by express at purchaser's expense; or prepaid to any part of the U. S. for \$10.75.

If by mail, add 5c per dozen, except where noted.

Six of a kind at dozen rate; 25 at 100 rate.

For other bulbs see page 100.

FACTS ABOUT GLADIOLI.

Gladioli thrive throughout the northern and central states. They are the best of all summer-flowering bulbs.

One cannot guarantee a crop of any flowers, since they are all subject to uncontrollable weather conditions, but there is no flower more certain to do well than the Gladiolus.

Few garden flowers last longer after being cut.

They are fine for the children's garden since they are of so easy culture.

Gladiolus bulbs are easily cared for over Winter, if the directions on the opposite page are followed. Then they may be planted out the following year and will continue to increase annually.

Plant Gladioli this Spring if you want beautiful flowers next Summer.

They bloom from midsummer until frost if planted at intervals, every ten days up to early July.

Gladioli appear best in masses of twenty-five or more of one color.

For early flowers start the bulbs indoors in March or April and transplant to the garden in late May.

Plant Gladioli by the hundreds and thousands this year. The initial cost is less than ever before and the expense of growing them slight. Create a demand in your neighborhood and the returns will be tenfold.

Northrup, King & Co.'s "Dollar Box" Gladioli 75 Bulbs in beautiful mixture strong-flowering \$1.00 postpaid.



Gladiolus Princeps.

NORTHRUP, KING & CO.'S BEAUTIFUL DAHLIAS.



Glory of Baarn. New Fragrant Peony-Flowered Dahlia.

Dahlias are so well and favorably known as to require no description. No garden is complete without some of these handsome, favorites. The Dahlia is a wonderful flower and rivals in popularity any other flower in existence. We offer strong, field grown roots which under favorable conditions will thrive and flourish.

Culture. Start the tubers indoors in April, placing them in shallow boxes of dirt. These can be kept in a cellar or outhouse until late May or early June when the plants should be transplanted outdoors. Plant in an open sunny situation; 3 x 3 feet is about the proper distance apart to plant. Prepare the soil thoroughly by digging. Be moderate in the use of both manure and water. Never plant when soil is wet. Lay the tuber flat on its side and cover it 4 inches deep, pressing the soil firmly on the tuber. Keep the soil loose and mellow by frequent hoeing, drawing the soil to a slight hillock around the plant. It is also advisable to use a mulch of straw or grass clippings around the plants to keep the soil from drying out. It is not well to water the plants except just enough to insure the soil being moist.

After frost has killed the tops, dig the tubers carefully leaving 6 inches of the main stem on every clump, taking up with them all the soil which adheres to the roots.

All clumps should be divided into several pieces before being reset each Spring. In doing this it is necessary to split the main stem, leaving a section of this on each tuber.

Delivery April to July first. Order early and start your plants indoors, as suggested above. Strong field grown clumps. See note, head of right column, regarding postage.

Cottage Garden Collection Dahlias

13 Choice Varieties for \$1.25

Postpaid to all parts of the U. S. A. for \$1.50

All double and no two alike

Collection "49" One each of the 49 Beautiful Dahlias listed on this and the opposite page, for \$10.00, prepaid to any part of the U. S.

Collection "12" Any twelve Dahlias, one of a kind, customer's selection from our list, shipped prepaid for \$3.25.

Collection "6" Any six Dahlias, one of a kind, customer's selection from our list, shipped prepaid for \$1.75.

These varieties were selected from a very complete assortment as the cream of the entire list, for certain characteristics: uprightness of growth, sturdiness, vigor and general freedom of bloom combined with rich, bright or pleasing colors. All are among the finest for cut flowers.

Price. Dahlia roots are for shipment by express at purchaser's expense, except where noted. If wanted by parcel post, add 5c each, extra.

New Peony-Flowered Dahlias

A new type of Dahlia; flowers are semi-double having two, three or more rows of broad, flat loosely arranged petals, surrounding a conspicuous, rich golden yellow center. Petals are often pointed, sometimes twisted and in some varieties the inner row of petals twists and curls over the center, giving the appearance of a Japanese Peony, hence it's name. The blossoms are very effective and graceful, adapting themselves to bouquets better than any other type; some are very large and fluffy.

Glory of Baarn. New Fragrant Peony-flowered. This most fascinating variety appeals to every flower lover as a true sensation. The coloring is exquisite, being a delightful clear soft pink; a most pleasing flower whose light rosy tint forms a perfect contrast with the deep green foliage. Its gems are of wonderful size and produced exceptionally freely on long, wiry stems. The beautiful golden yellow center lends an additional charm to this acquisition. See illustration. Each, 35c; doz., \$3.50.

Mrs. Jacques Futrelle. Up-to-date Peony-flowered. Flowers of medium size, but very attractive. An exquisite lemon-yellow heavily splashed scarlet. Each, 25c.

Queen Emma. New Fragrant Peony-flowered. A delightful sort that appears almost artificial. It is a charming shade of Hollyhock pink, the inner petals banded with gold. The flowers are sensational, possessing grace, simplicity and beauty, which makes this variety exceedingly fashionable. Each, 25c; doz., \$2.50.

Queen Wilhelmina. Giant Holland Peony-flowered. The largest and finest of the pure white sorts, being excellent for decorative work, and unsurpassed as a cut-flower variety. Blossoms produced upon long, graceful stems, well above the foliage. The plant is a very vigorous grower, with heavy, dark, glossy green foliage, and a remarkable constitution. An immense fluffy flower, of pure glistening white, showing its beautiful golden yellow center very prominently. Each, 25c; doz., \$2.50.

Peony-Flowered Dahlia Collection.

One each of the above four new varieties for \$1.00 prepaid.

Single Dahlias

Blanche. The flowers are large and very attractive, being a pale yellow at the base, faintly tipped pink, with a cast of pure white over the whole flower, making it one of the most delicate varieties to date. Each, 25c.

Mildred. One of the most charming of the Single type. The color is a bright, clear yellow and exceptionally showy. Each, 35c.

20th Century. Purest white at both base and tips, and the center of petals is a delicate blush rose. Very large, 5 to 7 inches in diameter. Each, 25c.



Grand Duke Alexis. A magnificent Dahlia of the largest size. Its petals are beautifully quilled, giving it a very unique appearance. Its color is pure white, if slightly shaded, but overspread with delicate lavender when grown in bright sunlight. Each, 25c.

Decorative Dahlias

Decorative Dahlias are large, flat and full to the center; petals quite irregularly situated, long, broad, flat and nearly straight.

Beauty of Brentwood. Plum, striped darker. Each, 25c.

Delice. The best, pure bright rose pink, entirely distinct. Each, 35c.

Jack Rose. Ideal cut flower variety; in shape like a full Rose, 5 to 6 inches across, each flower borne on a two foot stem. The color is a brilliant crimson-red. Each, 25c.

Jeanne Charmet. One of the most beautiful Dahlias ever produced, the flowers measuring from seven to ten inches in diameter, are borne on stiff, wiry stems, frequently eighteen to twenty-four inches long. In color it is a most exquisite shade of lilac-pink, daintily shading to pure white towards the center, with a tinge of light yellow at the margins. Each, 35c.

Le Grand Manitou. This wonderful new Dahlia is the grandest Fancy Decorative Dahlia in existence. It is a most sensational variety, one of the showiest and most attractive to date. The color is pure white artistically striped, splashed and blotched deep violet-purple. The plants occasionally bear a solid purple-colored flower. Each, 50c.

Mme. Van den Daele. Flowers large, of extra fine form, and produced upon exceptionally good stems, well above the foliage. As a cut-flower variety it is unsurpassed. The color, white, deeply edged live silvery pink. Each, 35c.

Mme. Victor Vassier. The grandest, clear, sulphur-yellow Decorative to date. Each, 35c.

Minos. One of the finest Dahlias. The flowers are very large, and exceedingly beautiful, borne on long, graceful, wiry stems. The color is intense velvety maroon, almost black. Each, 25c.

Perle de la Tete d'Or. One of the best, white Decorative Dahlias, faintly veined lavender, resembling a Peony. Each, 25c.

Purple Manitou. Enormous flowers of a rich clear deep purple. Identical in shape, form and size with "Le Grand Manitou." The very finest purple Decorative Dahlia in existence. We cannot recommend this variety too highly. Each, 35c.

Souvenir de Gustave Douzon. It is the largest Dahlia to date. The color is a pleasing shade of orange-red. Very bold and free. Good stems. Strong grower. Each, 25c.

Giant Decorative Dahlia Collection

One each of the above 12 Decorative Dahlias for \$3.75, prepaid.

Giant=Flowering or Colossal Dahlias

The Colossal type includes all the giant-flowering Dahlias, intermediate between the broad, flat petalled Decorative Dahlia and the quilled Show Dahlia.

They bear gigantic flowers of great depth, massive in proportions and globular in shape; petals are cup shaped and placed in exact regularity. Plants are strong, sturdy and robust.

American Beauty. The flowers are of gigantic size and produced on long, heavy stems, well above the foliage. The color is a gorgeous wine-crimson. "American Beauty" is the largest and best of its color. Each, 35c.

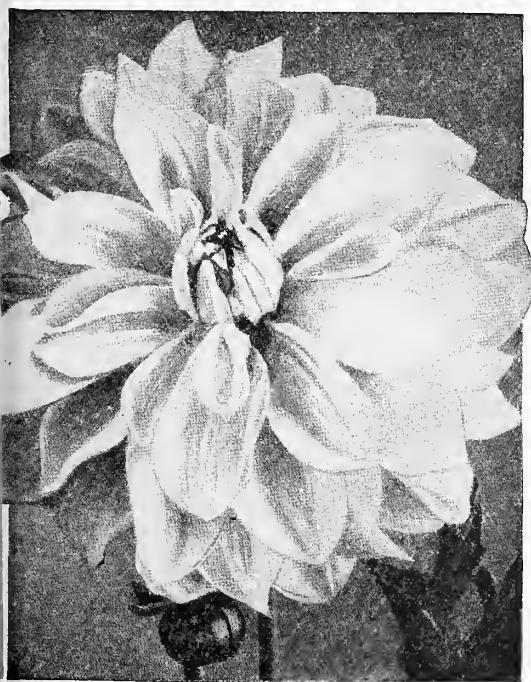
Dreer's White. An excellent Dahlia for garden effect and hedges; plants are very strong and vigorous, making ideal bushy specimens, averaging 3 feet in height. In color, a pure, glistening white and in form resembling the popular "Grand Duke Alexis," while in freedom of flowering it is not surpassed by any. Unquestionably the most valuable snow white variety in existence. Each, 35c.

Reggie. A Colossal Dahlia, of beautiful cherry-red color. A variety that will give the very best of satisfaction, producing flowers upon long stems, well above the foliage. Each, 25c.

Rose. One of the largest of recent introduction; a remarkable Dahlia of decided formation. Color, an exceptionally deep rose shade. Flowers carried erect upon extra long stems. Exceedingly free-flowering. Each, 35c.

Yellow Colosse. An ideal Dahlia that appeals to everyone on account of its distinct color, gigantic size and beautiful appearance. This magnificent variety is the best exhibition yellow in existence. Large, showy flowers of pure primrose-yellow are produced very freely on long, graceful stems. Each, 35c.

Collection of Wonderful Colossal Dahlias, \$1.65 Prepaid.



Prince of Orange. One of the most attractive varieties. A rich shade of old gold at the outer-petals with bright yellow center; very showy. Each, 25c.

Stern. Bright primrose-yellow. The flowers are large, petals long and pointed. One of the most satisfactory varieties. Each, 25c.

Reine Cayeux. An exceptionally free-flowering variety of great substance. The plants are literally covered with flowers from July until frost, which makes it a magnificent garden variety. Flowers are medium size, of a beautiful ruby-crimson, and are borne on long, graceful stems; excellent for exhibition purposes. Each, 25c.

W. B. Childs. A very reliable variety of a beautiful dark purplish maroon color. Flowers extra large. Each, 25c.

Chrysanthemum-like Cactus Dahlia Collection

One each of the above 12 Cactus Dahlias for \$3.25, prepaid.

Show Dahlias

These are large, spherical, regular, compact and full to the center. The flowers are either solid, edged, tipped or shaded darker.

A. D. Livoni. A splendid, clear pink, beautifully quilled, fine form and very free-flowering. Each, 25c.

Arabella. Sulphur-yellow, shaded peach-blossom on edges; a fine flower. Each, 25c.

Acquisition. An exquisite shade of deep lilac. Very large with cup-like petals. Each, 25c.

Alice Emily. Orange-yellow. Large and fine. Each, 25c.

Dorothy Peacock. The flowers are of good size, exquisite form, great substance; the color is that beautiful, clear, live pink that appeals to everyone. Each, 35c.

Elsie Davidson. A giant-flowering, deep golden yellow. Each, 35c.

Merlin. A beautiful orange-scarlet. One of the very finest Dahlias ever offered. Free-flowering and good for cut-flower purposes. Each, 25c.

Norma. Flowers are large, perfectly quilled, and of a most exquisite shade of live bright orange. The blossoms are produced in remarkable profusion. Each, 25c.

Queen Victoria or Mary D. Hallock. Canary-yellow. Each, 25c.

Robert Broomfield. Pure white. Tall grower. Each, 25c.

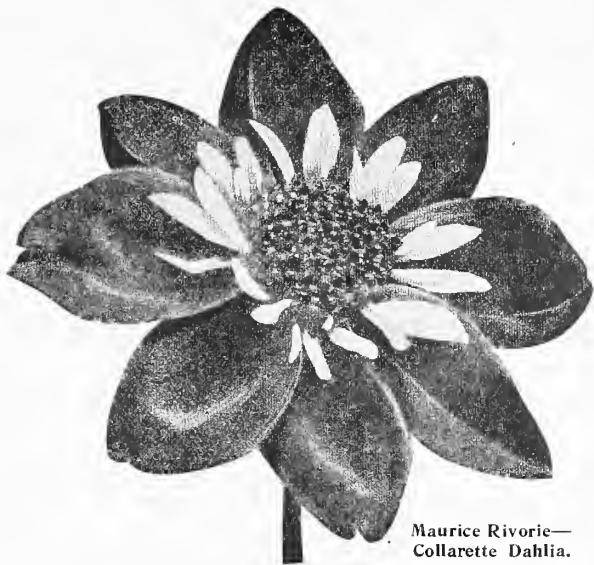
Stradella. Beautiful deep purple-crimson. Exceptionally free-flowering. Stems long and wiry. One of the finest to date. Each, 25c.

Storm King. The most reliable white Show Dahlia. Flowers produced on good stems, well above the foliage. Free-flowering. Each, 25c.

Quilled Show Dahlia Collection

One each of the above 12 Show Dahlias for \$3.25, prepaid.

Maurice Rivorie. A Wonderful New Collarette Dahlia. The flowers are produced in great profusion on long, graceful stems, well above the foliage. The flower, a gorgeous, rich crimson, with pure white collar of short, well-formed petals, perfectly arranged around the rich golden-yellow center. Each, 35c.



Maurice Rivorie—
Collarette Dahlia.

SUMMER-FLOWERING BULBS

Amaryllis

There are a great many species of Amaryllis, all producing lily-like flowers, but varying in color from the richest crimson and scarlet to pure white and in size from very delicate blossoms scarcely an inch in diameter to those which measure from six to nine inches.

Amaryllis Formosissima. JACOBAEAN LILY. A curious and attractive crimson flower. The flowers are produced before the leaves appear. The bulbs are not hardy but they can be easily preserved during the Winter in a dry cellar. Each, 35c, postpaid.

Valloia purpurea. THE SCARBOROUGH LILY. One of the really fine window plants. A free-flowering summer and autumn-blooming Amaryllis. Color brilliant scarlet. Each, 50c.

Begonias.

TUBEROUS ROOTED

For showy lawn beds and borders we know of no flower that equals the Tuberous Rooted Begonia in ease of culture, brilliancy of bloom, beauty and attractiveness of foliage. The flowers are from 5 to 7 inches in diameter; the plants grow about twelve inches in height, bloom from early Summer until time of frost, and fairly blaze with their gorgeous coloring of crimson, rose, yellow, scarlet, white and orange.

Tuberous Rooted Begonias are adapted not only for bedding and window box decoration, but for indoor blooming in pots. In addition to their great and striking beauty, they have the additional merit of being very reasonable in price, especially the single sorts, which on this account, as well as for their beauty, are particularly recommended for planting on a liberal scale where striking color effect is desired.

The value of Tuberous Rooted Begonias is becoming more appreciated each season. They are easily cultivated, not likely to be attacked by insects or blight, and succeed in any good soil which is kept moderately moist. The tubers may be started in March, either singly in small pots or set two inches apart in flat boxes. The soil should be light containing plenty of leaf mold and sand. In planting, care should be taken to set the crown of the tuber, which is usually somewhat depressed, upward. The tubers should be covered one-half inch with light soil and watered sparingly until they start, after which more water may be given. The temperature should be 60 to 70 degrees. The started plants may be transplanted to the beds in open ground early in June, at which time they should be in bloom. They may also be started in the open ground at the approach of warm weather with very good results. They will thrive either in full sunlight or partially shaded places.

Postpaid at single and dozen prices; larger quantities by express at purchaser's expense.

We offer Frilled, Single and Double Begonias at the strikingly low prices below named. Our bulbs are the largest size produced and have been imported in large quantities from the best growers of Europe.

Our Frilled Begonias are remarkably showy. The stems are erect and stiff; flowers large with gracefully frilled and crested petals.

SINGLE VARIETIES.

Single Yellow.	Single White.	Single Rose.
Single Crimson.	Single Scarlet.	Single Orange.

Prices, any of the above, each, 6c; doz., 65c; 100, \$4.50.

Single Mixed. All the above colors. Each, 6c; doz., 60c; 100, \$4.00.

DOUBLE VARIETIES.

Double Yellow.	Double White.	Double Rose.
Double Red	Double Salmon	Double Orange.

Prices, any color in double, each, 10c; doz., 85c; 50, \$3.00; 100, \$6.00.

Double Mixed. Embracing all six colors mentioned above. Each, 10c; doz., 75c; 50, \$2.75; 100, \$5.50.

FRILLED VARIETIES.

Frilled Yellow.	Frilled White.	Frilled Rose.
Frilled Salmon	Frilled Scarlet.	Frilled Orange.

Prices, Frilled Begonias, any color named, each, 10c; doz., 85c; 50, \$3.00; 100, \$6.00.

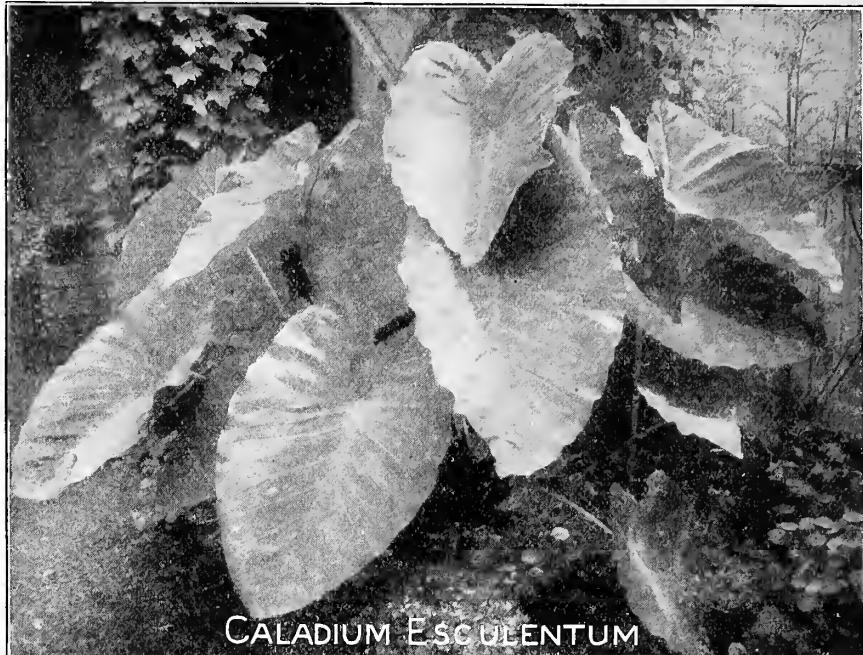
Frilled Mixed. All colors mixed, each, 10c; doz., 75c

Montbretias.

Hardy border plants with elegant and gracefully branched gladiolus-like flowers which are much prized for cutting during Summer. The colors vary from clear yellow to rich scarlet, and the plants grow about 2 feet in height. Plant bulbs five inches deep. Most winsome flowers we know. Should be grown in groups for a remarkably showy effect. From August to October, they are one mass of flowers, spike after spike of the flame-like beauties appearing. Protect during the Winter with a heavy covering of leaves or litter. We desire to recommend the following grand, large-flowering and beautifully colored varieties. The Montbretia is one of the really good late summer-flowering bulbs for our Northwestern country. Postpaid at single and dozen prices.

	Each	Doz.	100
Aurantiaca.	3c	\$3.30	\$2.00
California.	3c	.30	2.00
Etoile de Feu. (Star of Fire)	4c	.35	2.50
Fire King.	4c	.35	2.50
George Davison.	4c	.35	2.50
Germania.	4c	.35	2.50
Golden West.	6c	.60	4.00
King Edmund.	7c	.75	5.00
Lady Hamilton.	5c	.50	3.50
Lord Nelson.	7c	.75	5.00
Collection.	7c	.75	5.00

\$4.50, postpaid. Six of each, \$2.50.



CALADIUM ESCULENTUM

Caladium Esculentum.

"Elephant's Ears." A handsome plant of tropical aspect, bearing leaves sometimes a yard or more in expanse. Effective as a single plant on a lawn, or in groups; also useful for decorative effect near streams or ponds. Bulbs can be stored in dry sand in Winter and kept from year to year.

	By Express Only	By Mail
Each	Doz.	100
Mammoth Bulbs	\$.50	\$5.00
Large Bulbs	.35	3.50
First Size Bulbs	.25	2.50
Second Size Bulbs	.15	1.50
		10.00
		.18

Calla Elliottiana

This is the Yellow Calla of marvelous beauty. Flowers are very large, rich, deep golden yellow, often 4 to 5 inches across the mouth; leaves are spotted with white. Handsome foliage together with flowers present a striking appearance. Each, 50c, postpaid.

Gloxinias, Giant Flowering Hybrids

A charming summer-flowering houseplant of very easy culture. Should be given as much light as possible, but shaded from the direct rays of sun. Emperor Frederick. Red, with pure white border. King Edward. Deep blue, bordered white. Defiance. Rich crimson scarlet. Mont Blanc. Pure white. Each, 15c; doz., \$1.50, postpaid.

Oxalis

No bulb is so valuable for edging the borders of walks or flower beds as the beautiful flowering Oxalis. When planted three inches apart they produce an unbroken row of elegant foliage and pretty flowers; and as they bloom quickly after planting they furnish a neat and attractive border the whole season. The bulbs can be planted the first of May, or perhaps earlier, and will bloom the first of June. No flowers more easily grown than these, as they usually succeed in all soils and situations. They are also charming when grown in pots and make a very attractive mass of fine foliage and gay flowers. They can be planted in this way at any time during the Winter or Spring, and will commence blooming at once.

Dieppi. Pale purplish red. Doz., 15c; 100, 75c, postpaid.

Lasianandra. Fine rosy pink, beautiful cut foliage. Doz., 15c; 100, 85c, postpaid.

Rosea. Pink. Doz., 15c; 100, \$1.00, postpaid.

Shamrock. Lovely clover-like foliage and pink blossoms. Doz., 15c; 100, \$1.00, postpaid.

Mixed Colors. Several sorts. Price, doz., 15c; 100 for 75c, postpaid.

Tuberoses

Pure white, sweet scented flower; is one of the most popular of summer-blooming plants.

Mammoth Excelsior Dwarf Pearl. Extra selected, double full-flowered, by mail, each, 7c; 4 for 25c; doz., 60c, postpaid; by express at purchaser's expense, 100, \$3.00. We supply 25 and over at the hundred rate.

First Size Bulbs. By mail, 3 for 12c; doz., 30c, postpaid; by express at purchaser's expense, 100, \$1.75.

Zephyranthes

The Zephyr flowers, or Fairy Lilies, are gems of rare beauty; and when planted either in pots or the open ground they produce very beautiful lily-like flowers nearly all Summer. When once grown they are always grown, for they are very beautiful and of easy culture. For pot culture plant for three or four in a 5 or 6-inch pot and they will bloom beautifully. For the garden, plant in Spring and lift them in the Fall like Gladioli.

Rosea. Beautiful clear rose; flowers large and very handsome; blooms all Summer. Each, 8c; doz., 80c, postpaid.

Candida. Pure white and the most profuse bloomer of all. 3 for 10c, doz., 35c, postpaid.

Strawberry Plants

Our shipping season is from April 25th to May 15th, the best planting time for the Northwest. Please send your orders early.

Price postpaid, except where noted, 25, 35c; 50, 65c; 100, \$1.25. By express at buyer's expense, 100, \$1.00; 1000, \$7.50; 250 of a kind at 1000 rate, 25 at the 100 rate.

We have aimed to include only those varieties which by actual test have proven the most reliable for this section. See note below under "Strawberry Culture" regarding perfect plants.

Strawberry Culture. A rich, well drained loam soil, having plenty of available humus and plant food is best for strawberries. If necessary to enrich the soil just before planting, use only commercial fertilizer, well rotted compost or sheep manure, to avoid weed seeds.

Plants. Use only the best plants. Inferior ones or those that have fruited once do not pay to set out. Our strawberry plants are grown to produce satisfactory results. Varieties marked "imperfect" have imperfect flowers without pollen and must be interplanted with a perfect variety to pollinate them so they will bear well.

Planting Time. Planting from April 25th to May 15th is best for the Northwest.

Setting Plants. Upon arrival, dip roots into liquid mud and keep them moist, never expose to sunlight or wind. To set plants for the old matted row system, plant in rows 3 to 3½ feet apart, 12 to 15 inches apart in row. Then runners are allowed to form dense beds or rows. A better way is to plant 2 feet apart each way; first trim ends of roots slightly, spread them out fan-shaped and drop each plant into the space made by forcing a spade straight down into earth. Then work up the earth around plant and settle firmly, so crown is a trifle lower than the surface, but not covered. Water each plant.

General Care. Pinch off blossoms the first year, keep beds weed-free and well cultivated. Train runners around parent plant like spokes of a wheel. Thus plants develop evenly and yield well. After ground freezes, cover with 4 to 6 inches of straw.

August Luther. (perfect.) An excellent, very early Strawberry. Fruit bright red, firm and easily picked. Thrives best on rather light soil.

Bederwood. (perfect.) One of the best for home use or market. Fruit large, bright scarlet, firm and of fine quality. Early.

Brandywine. (perfect.) A valuable late sort. Berries large, bright glossy crimson, firm and of good flavor.

Charles I. (perfect.) An extra early berry. Produces a big crop of large berries of good quality and the size holds well through the season.

Gandy. (perfect.) One of the best late varieties. Strong grower; fruit large and firm, very showy.

Glen Mary. (perfect.) Large and choice; very handsome and of fine flavor. A variety sure to please.

Lovett. (perfect.) A hardy variety, very firm berry of good color. Medium to late.

Senator Dunlap. (perfect.) One of the best market berries, prolific and profitable; bright glossy red, of first class quality. Midseason. Our leading variety for the Northwestern States.



Senator Dunlap Strawberries.

The No. 3. (perfect.) The No. 3 Strawberry, a June bearing variety, originated on the Minnesota experimental farm.

A cross of the Dunlap, a strong, vigorous plant, with extra good foliage and long roots, will stand drouth where many other varieties fail. A large berry of the Dunlap type, it is sure to take the lead of all June bearing berries, and like the Dunlap, the parent plant, is a great plant producer.

Warfield. (perfect.) A grand berry for main season. The dark red color, clear through, makes it very desirable for home use.

Everbearing Strawberries.

Everbearing Strawberries are no longer an experiment as they are now being successfully grown in many parts of the country. There is a demand everywhere for them. Their great value is well established. They take the place, to an extent, of the June varieties, both for family and market use.

The plants are not injured by late frost. If the first blossoms are killed by frost they immediately throw up new blossom stems. While these varieties will produce fruit at the same time as the ordinary strawberries and continue to bear until frost, it is best to keep the blossoms removed until July 15th, so as to conserve the strength of the plant for the late crop. They should start to ripen the fruit about three weeks later and bear continuously until frost.

The ground should be kept very rich, at least fifty loads of stable manure to the acre are desirable. This is very essential to enable the plant to carry a continuous crop. The three varieties listed here are the best of this class.

Price, dozen, 50c, postpaid; 100, \$2.00, by express at buyer's expense. Price per 1000 on application.

Americus. On our Minnesota soils this variety has proved the most valuable of the three. During the Summer of 1915 one grower sold fruit to the value of \$255.00, produced on a quarter acre of land. Americus sets such large quantities of fruit that the berries are a little under-size, unless conditions are very favorable. This is a perfect variety.

Fruit light red, heart-shaped, of fine texture and good quality, stem strong so fruit is held off the ground. Plants are healthy and deep rooters.

Progressive. A very strong grower, of medium size, very heat resistant. Both blossoms and fruit are well protected by heavy foliage. The berries are rich and sweet, a deep red inside and out, very prolific. This variety is the most largely planted and does well on a great variety of soils.

Superb. This is the largest Everbearing Strawberry. Specimens have measured 5½ inches in circumference. It is not quite equal in flavor to the other varieties, but on account of the great size and beauty it makes a very fine market berry; color good and, being firm, makes a good shipper. Berries are regular in shape, glossy and attractive.

HARDY FERNS.

Dormant Roots.

Our native Ferns take as readily to cultivation as the common garden flowers. While flowers require a sunny place, Ferns delight in some shaded nook shut out from the bright sunlight by buildings or trees; they can also be grown in boxes or pans on the porch, in the house or under trees.

In ordering, please give numbers of the varieties wanted. These prices are for shipment by express at buyer's expense. They will be shipped in April or early May. Please send your orders early!

1. Cinnamon Fern. *Osmunda cinnamomea.* A large Fern growing in a crown two to five feet high. Its golden brown fronds are broad and lance-shaped, curving gracefully outward. Each, 30c; doz., \$3.00; 100, \$20.00.

2. Maidenhair Fern. *Adiantum pedatum.* Plant an inch deep and about one foot apart for massing. Each, 25c; doz., \$2.50; 100, \$17.50.

3. Ostrich Fern. *Onoclea struthiopteris.* Great plume-like fronds of a rich green. Its vase-like masses of foliage rise two to four feet high, six to ten inches wide. Each, 30c; doz., \$3.00; 100, \$20.00.

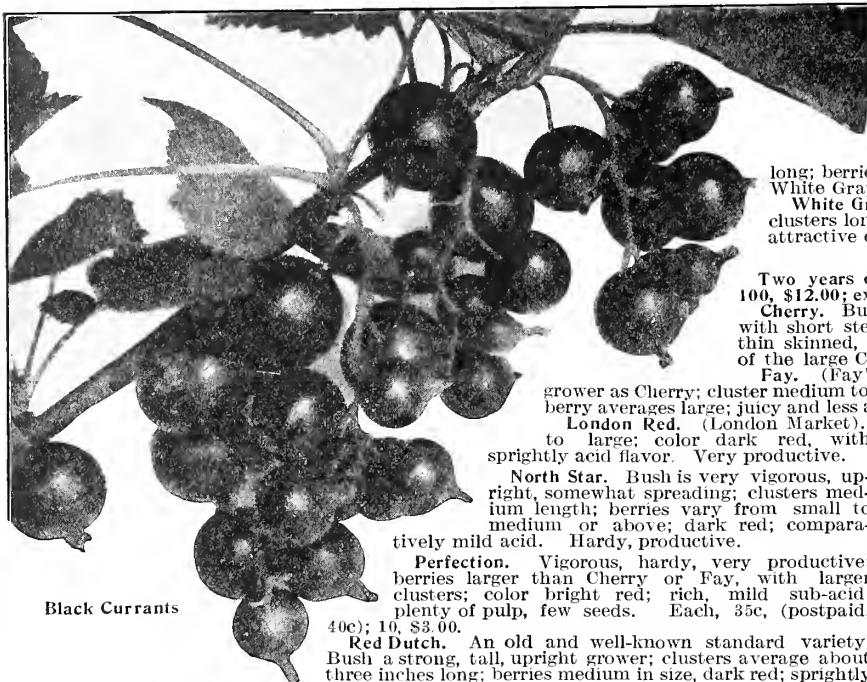
4. Sensitive Fern. *Onoclea sensibilis.* Fronds one to two feet high, broadly triangular, deeply cut into wavy, toothed divisions. Each, 20c; doz., \$2.00; 100, \$12.50.

5. Silvery Spleenwort. *Asplenium thelypteroides.* Two to three feet high, by six inches wide. Will grow in any good garden soil. Each, 25c; doz., \$2.50; 100, \$17.50.

6. Wood Fern. *Asplenium spinulosum.* At its best it grows with almost tropical luxuriance and is a plant of rare beauty, its fronds having a certain feathery aspect. Each, 25c; doz., \$2.50; 100, \$17.50.



Hardy Ferns used in front of porch. Very effective in shady nooks.



Black Currants

WHITE CURRENTS
 Two years old, No. 1 stock. Each, 20c, (postpaid, 25c); 10, \$1.50; 100, \$12.00; except where noted.
White Dutch. Bush an upright grower, vigorous and very productive. Clusters two to three inches long; berries early, of medium size, translucent, slightly darker than White Grape; quality excellent.

White Grape. Bush vigorous, somewhat spreading, productive; clusters long; berries large to very large, averaging large; of very attractive color, mild flavor and good quality. Good table variety.

RED CURRENTS

Two years old, No. 1 stock. Each, 20c, (postpaid, 25c); 10, \$1.50; 100, \$12.00; except where noted.

Cherry. Bush vigorous, stocky and compact; cluster rather short, with short stems; fruit averages large; color, fine bright red; berry thin skinned, juicy and fine-flavored. One of the most productive of the large Currants.

Fay. (Fay's Prolific). Bush vigorous but not quite so strong a grower as Cherry; cluster medium to long, with rather long stems; color darker than Cherry; berry averages large; juicy and less acid than Cherry.

London Red. (London Market). Bush vigorous, upright; clusters short; fruit medium to large; color dark red, with sprightly acid flavor. Very productive.

North Star. Bush is very vigorous, upright, somewhat spreading; clusters medium length; berries vary from small to medium or above; dark red; comparatively mild acid. Hardy, productive.

Perfection. Vigorous, hardy, very productive; berries larger than Cherry or Fay, with larger clusters; color bright red; rich, mild sub-acid; plenty of pulp, few seeds. Each, 35c, (postpaid, 40c); 10, \$3.00.

Red Dutch. An old and well-known standard variety. Bush a strong, tall, upright grower; clusters average about three inches long; berries medium in size, dark red; sprightly sub-acid flavor. Productive.

BLACK CURRENTS

Two years old, No. 1 stock. Each, 20c, (postpaid, 25c); 10, \$1.50; 100, \$12.00.

Black Champion. Bush vigorous and productive; fruit averages above medium; pulp nearly sweet, mild-flavored.

Lee's Prolific. Bush short, dwarfish, moderately vigorous, productive; fruit varies from small to very large, acid.

GOOSEBERRIES

Two years old, No. 1 stock. Each, 25c, (postpaid, 30c); 10, \$2.00; 100, \$15.00, except where noted.

AMERICAN VARIETIES

Carrie. A very fine red, of vigorous growth and very prolific. Healthy and free from mildew. Hardy, fruit of good size and of excellent quality. A very promising sort, introduced by Mr. Wyman Elliot of Minneapolis.

Downing. Bush vigorous and very productive. Fruit medium to large, skin whitish green; flesh soft, juicy.

Houghton. Bush a vigorous grower, with rather slender branches; very productive. Fruit medium size, pale red, tender and good.

Pearl. Bush moderately vigorous; immensely productive. Fruit about the size of Downing, of fine quality.

Red Jacket. (Josselyn). Bush vigorous, upright and productive. Fruit varies in size from medium to above medium. Color pale red.

Transparent. One of the best for the North. Vigorous, hardy, very productive. Skin very thin and yet firm. Not new, was grown many years ago but was forgotten temporarily because of the demand for large berries.

ENGLISH VARIETY

Industry. This is without doubt the most thoroughly tested and successful of the English varieties. The bush is strong, upright, immensely productive. Berries of the largest size, dark red. Each, 35c.

**Small Fruits.
CURRENTS****WHITE CURRENTS**

Two years old, No. 1 stock. Each, 20c, (postpaid, 25c); 10, \$1.50; 100, \$12.00; except where noted.

White Dutch. Bush an upright grower, vigorous and very productive. Clusters two to three inches long; berries early, of medium size, translucent, slightly darker than White Grape; quality excellent.

White Grape. Bush vigorous, somewhat spreading, productive; clusters long; berries large to very large, averaging large; of very attractive color, mild flavor and good quality. Good table variety.

RED CURRENTS

Two years old, No. 1 stock. Each, 20c, (postpaid, 25c); 10, \$1.50; 100, \$12.00; except where noted.

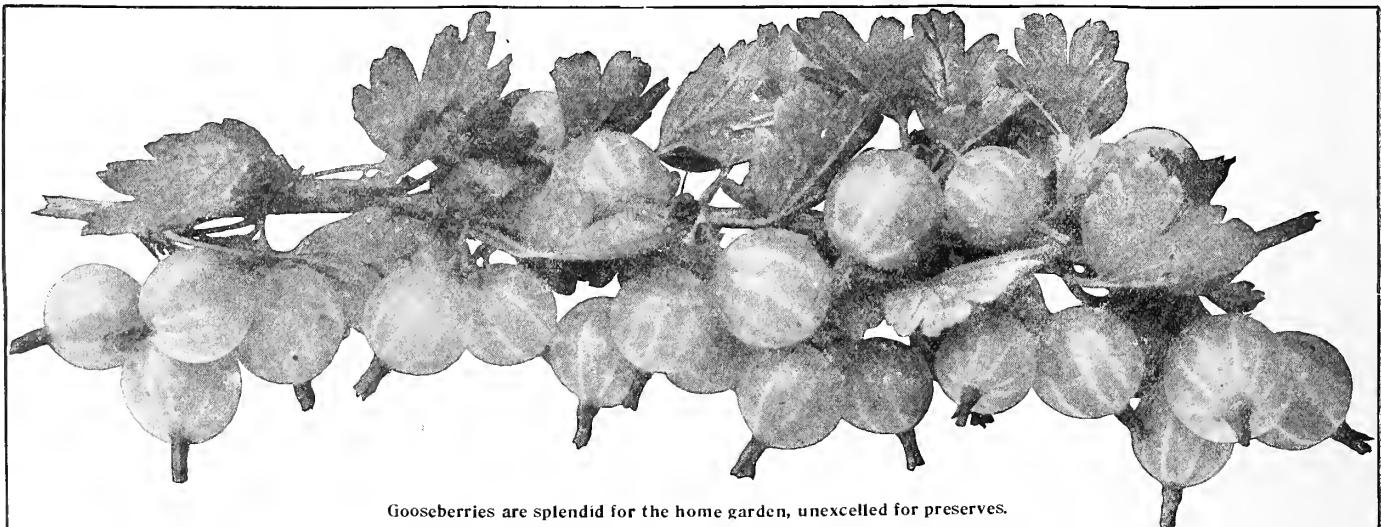
Cherry. Bush vigorous, stocky and compact; cluster rather short, with short stems; fruit averages large; color, fine bright red; berry thin skinned, juicy and fine-flavored. One of the most productive of the large Currants.

Fay. (Fay's Prolific). Bush vigorous but not quite so strong a grower as Cherry; cluster medium to long, with rather long stems; color darker than Cherry; berry averages large; juicy and less acid than Cherry.

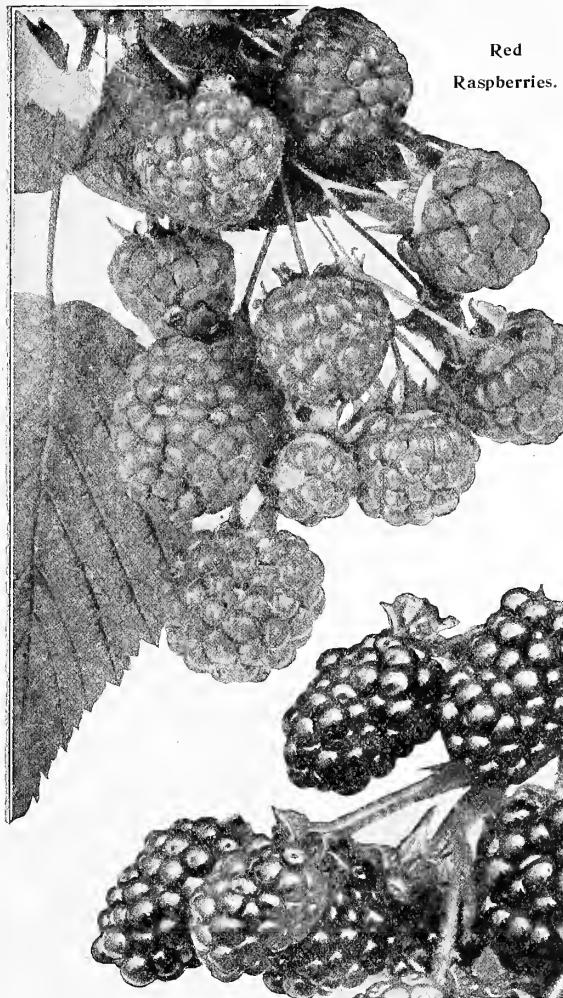
London Red. (London Market). Bush vigorous, upright; clusters short; fruit medium



White Currants.



Gooseberries are splendid for the home garden, unexcelled for preserves.



Blackberries.

Gregg. Black Raspberries. Has been for many years the leading market berry. Large, firm, of good quality, ripening late. Exceedingly productive.

Kansas. Black Raspberries. Berries as large as Gregg and of better color; very little bloom; of best quality; ripens early. Very strong grower and immensely productive.

GRAPES

Price, two years old, No. 1 stock. Each, 30c, (postpaid, 35c); 10, \$2.50, except where noted.

Beta Grape. Fine for jelly. Each, 50c; 10, \$4.50. See page 108.

Brighton. Red. Bunch medium to large, long, compact, shouldered; berries medium; skin thin; flesh tender, sweet, with scarcely any pulp, quality best. Vine a vigorous grower, healthy, hardy and productive; one of the best early red Grapes. The flowers have reflexed stamens and do not always fertilize fully unless planted with Concord, Martha or other varieties which blossom at the same time.

Campbell's Early. Black. Bunch large, shouldered, moderately compact; berry large, nearly round, slightly elongated; adheres strongly to stem; skin thick, tough and does not crack; flesh somewhat pulpy, sweet, with slight aroma. It colors very early but requires some weeks after coloring to fully ripen; a fine shipping Grape. Each, 35c; 10, \$3.00.

Concord. Black. Early. Decidedly the most popular Grape in America, and deservedly so. Bunch large, shouldered, compact; berries large, covered with a rich bloom; skin tender, but sufficiently firm to carry well to distant markets; flesh juicy, sweet, pulpy, tender; vine a strong grower, very hardy, healthy and productive. For general cultivation the most reliable sort.

Delaware. Red. Bunch small, compact, sometimes shouldered; berries small, skin thin, but firm; flesh juicy, very sweet and refreshing, of best quality for both table and wine. Vine hardy, productive, a moderate grower; requires rich soil and good culture.

Martha. White, sometimes turning pale yellow when fully ripe. Bunch medium, compact, shouldered, berries medium, skin thin, tender, flesh very sweet. Vine healthy and hardy.

Moore's Early. Black. Bunch rarely shouldered, not quite as large as Concord; berries larger and very much like it in flavor and quality. Vine a moderate grower, very healthy and hardy. Produces a fair and, with high cultivation, a heavy crop. Ripens so early as to be nearly out of market before Concord is ripe and is, therefore, a very popular early market variety. Succeeds best on rich soil.

Pocklington. Pale green, usually with tinge of golden yellow where exposed to the sun; bunch large, very compact; berries very large, covered with a beautiful white bloom; flesh juicy, sweet, with considerable pulp. Vine a moderately good grower, but very healthy and very hardy, its buds withstand severe cold even better than Concord. It produces a heavy crop of fine, showy clusters.

Berry Culture. All berries do best in a rich, stiff loam, rather clayey than sandy. The ground should be retentive of moisture, yet well drained. They should all be mulched after ground freezes, with straw or other coarse litter for Winter protection. For any leaf destroying worms use arsenate of lead, Slug Shot or some other insecticide. See page 149. For borers, remove the injured canes. Bordeaux mixture spraying will help check rust and blight but prevention is best—clean cultivation and proper pruning are essential. Always cultivate thoroughly until fruiting time.

Blackberries. Set in rows 8 feet apart, space 2 to 4 feet apart in the row. The young canes should be cut back when 2 feet high to induce branching. Remove old canes every year after fruiting. They should be gathered and burned at once to prevent insects and diseases. **Currants.** Rows 6 feet apart, 4 feet apart in row. The fruit is borne on both old and young wood but the best is on 1 year old shoots and spurs. Remove all but 4 to 8 main stems. Leave no wood over 3 years old. Shorten vigorous, straggling shoots and thin out old wood.

Gooseberries. Rows 5 feet apart, 3 feet apart in row. These bear best on 2 and 3 year wood. Prune to encourage continuous growth of vigorous shoots. **Raspberries.** Rows 6 feet apart, 4 feet apart in row. Remove old wood after bearing. Prune Black Raspberries when 18 inches high to induce branching.

BLACKBERRIES

Root-Cutting plants, each, 10c; 10, 75c, (postpaid, \$1.00.) 100, \$6.00.

Ancient Briton. Of medium size and best quality; immensely productive. Extremely hardy, enduring severe Winters without injury. A reliable market variety.

Early Harvest. Medium, glossy black, of excellent quality; ripens very early and ships well; compact, dwarf grower.

Snyder. Of medium size and fair quality when well ripened. The most popular Blackberry in this state. Ripens early, is productive and hardy.

DEWBERRIES

Root-Cutting plants, each, 10c; 10, 75c, (postpaid, \$1.00.) 100, \$6.00.

Lucretia. A low-growing trailing blackberry. Large, soft, sweet, of very good quality, with no hard core. The plant is quite hardy and, under favorable conditions, very productive. Earlier than Blackberries.

RASPBERRIES

Root-Cutting plants, each, 10c; 10, 75c, (postpaid, \$1.00.) 100, \$6.00.

RED VARIETIES

Cuthbert. Deep, rich crimson, large to very large, very firm. One of the very best market varieties. Season medium to late. A remarkably strong, hardy and productive variety.

King. The leading market berry of Minnesota; firm, especially fine flavor; desirable for home or market use. A good bearer for a long time.

Marlboro. Light crimson, large, very firm, and of good quality. A fine early market variety; vigorous and productive.

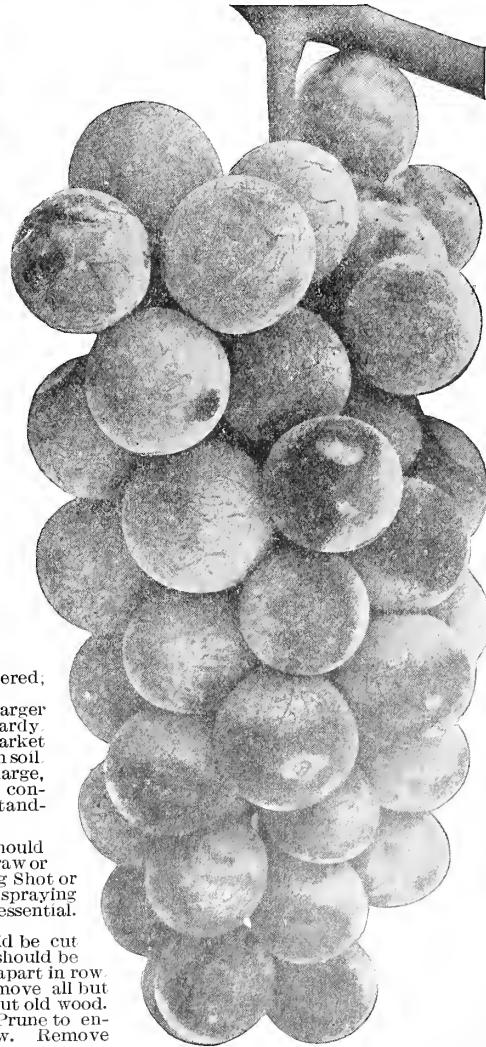
St. Regis. Everbearing Raspberry. Usually bears fruit the first year planted. The berries are large and of very fine quality, rich and sugary, and keep longer after picking than most other sorts.

They are of a bright crimson color, and firm, meaty substance. It is the earliest of all red Raspberries, commencing to ripen in June, and bears a tremendous crop on the first canes, while the young canes continue to bear fruit until frost. Awarded the highest certificate of merit by the American Institute of New York.

BLACK AND PURPLE

Columbian. Dull purple, very large, moderately firm. A good market berry and one of the best for canning. Bush remarkably strong and wonderfully productive.

Cumberland. Black. Very large; very similar to Gregg in quality and firmness, in hardiness and productiveness it is unexcelled. One of the best mid-season market varieties.



Concord Grapes.

SELECT APPLE TREES.

Suitable for the Northwest.

Culture. Plant apple trees 30 feet apart and plums 18 feet apart, in rich soil. Press soil down very firmly around roots; mulch with straw.

Pruning. For 5 to 6 foot trees with a 3 to 5 foot stem, prune the branches back to within 3 or 4 buds of their base. Cut off all bruised or broken branches and roots.

Standard First Class Trees.	Each	10	100
5 feet and up, 11-16 inch and up.....	35c	\$3.00	\$25.00
4 to 5 feet, 5-8 to 11-16 inch.....	30c	2.50	20.00
3 1-2 to 4 1-2 feet, 1-2 to 5-8 inch.....	25c	2.00	15.00

Ask for prices per 1000. We supply 25 trees at 100 rate. No charge for boxing and packing.

Summer and Autumn Apples.

Duchess. Large, streaked red and yellow, great cooking favorite, tender and juicy. August and September. Very hardy.

Early Harvest. Medium, round; bright straw color when ripe; flesh nearly white and flavor rather acid; ripens early and continues for about 3 weeks.

Fameuse. Medium, round; color rich red; flesh very delicate and flavor good. An excellent dessert apple.

Hibernial. Fruit large, greenish yellow and bronze-red; flesh acid, juicy and good for cooking. November and December.

Maple. Sweet; very good dessert variety.

Okabena. Very popular; fruit medium, yellow, striped and splashed with carmine; quality excellent, crisp and juicy. September to November.

Tetofski. One of the earliest. Fruit small to medium; light yellow, striped and splashed red. Fruit tender and juicy.

University. Fruit large, clear yellow; flesh white, good quality. Nov. & Dec.

Yellow Transparent. Medium, round, but rather conical; skin yellow, almost transparent. Flesh very crisp, sub-acid, good quality.

Winter Apples.

Anisim. Fruit medium, greenish with dark red, sub-acid. Nov. to Jan. **Gano.** Conical, good size and smooth; deep red shaded on sunny side to mahogany. Flesh pale yellow, fine grained. A good keeper and shipper.

Jonathan. Medium, red, extra quality. Fine dessert sort. Winter.

Malinda. Fine keeper. Season February to March; fruit medium; green with blush; flesh hard.

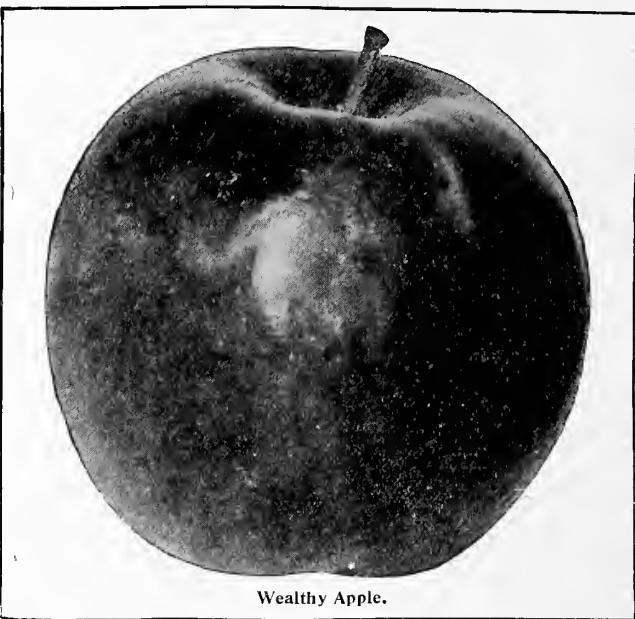
McIntosh. Medium, deep crimson, highest quality, juicy, sub-acid. Winter. Fine dessert variety, spicy odor.

Northwestern Greening. Large, green becoming yellowish green. One of the best. December to March.

Patten's Greening. Large, green and blush; flesh yellowish white, pleasant acid flavor. November to January.

Wealthy. Splendid dessert and cooking apple. Season October to March. Fruit medium, skin smooth, mostly covered with dark red. Flesh white, very juicy and of delicious aroma.

Wolf River. One of the largest grown in the North. Season October to January. Very handsome and showy.



CRAB and HYBRID APPLE TREES.

Prices same as for Apples.

Florence. Light yellow, streaked with red. A splendid large variety.

Hystop. Deep crimson. October to December.

Minnesota. Excellent sort for northern growing.

Orange. Hardy, productive, fine quality.

Transcendent. Immensely productive, the skin is yellow, striped with red.

Whitney. A heavy bearer. Season August and September. Fruit large, yellow and red; flesh yellow, rich and sweet.

CHOICE PLUMS.

First Class	Each	10	100
9-16 to 11-16 inch, 5 to 6 feet.....	75c	\$5.00	\$45.00
6-16 to 9-16 inch, 4 to 5 feet.....	50c	4.00	35.00
Cheney. Early; dark red with blue bloom.			
De Soto. Unsurpassed quality; fruit orange-red. Season medium.			
Hawkeye. One of the largest and best; color dull red over yellow.			
Ocheda. Medium size; color dull mottled red. Sweet and rich.			
Surprise. Fruit large; color bright red; quality extra good; season medium.			
Weaver. Free stone. Fruit large, oval; color orange overlaid with red.			

Compass Cherry-Plum.

First Class	Each	10	100
11-16 inch and up, 5 to 6 feet.....	50c	\$4.00	\$35.00
9-16 to 11-16 inch, 4 to 5 feet.....	40c	3.50	30.00

This famous hybrid originated in Minnesota and is a cross between the Sand Cherry and a Plum. Nearly an inch in diameter, a bright red, sweet and juicy.

Hansen Hybrid Plums.

Sapa. A cross between the Sand Cherry and a purple fleshed Japanese Plum. Originated by Prof. Hansen of the South Dakota Experiment Station. The fruit has the rich dark purple flesh of the Japanese plum and the hardness and prolificness of the Sand Cherry. Plums are nearly as large as California fruit, quality as good and hardier, very prolific. 4 to 6 feet, 75c each; 3 1-2 to 5 feet, 60c each.

Opata. A cross between the Sand Cherry and a hybrid Japanese Plum. Very vigorous and hardy. Fruit measures over an inch in diameter. Sweet and of delicious quality. Skin thin, pit small, season early, color dark purplish red with blue bloom, flesh green. Prices same as for Sapa Plum.



Typical fruiting branch of Sapa Plum

Minnesota Agricultural Experiment Station

OFFICE OF STATE ENTOMOLOGIST

No. 53

St. Anthony Park September 6, 1916.

Special Certificate of Nursery Inspection

THIS IS TO CERTIFY That in accordance with Sec. 7, Chapter 206, Session Laws of 1915, (as amended in 1915)

the nursery stock now offered for sale by **Northrup, King & Co.,**

Minneapolis, Minnesota

consists of stock purchased from a duly inspected nursery, as attested by an affidavit filed in this office

September 2, 1916, by the above firm and that this stock has been found apparently free from dangerously injurious insects and contagious plant diseases. This certificate also covers foreign stock imported by the above firm and inspected in Minnesota by a duly authorized deputy from this office.

This certificate is good until November 1, 1917 unless revoked.



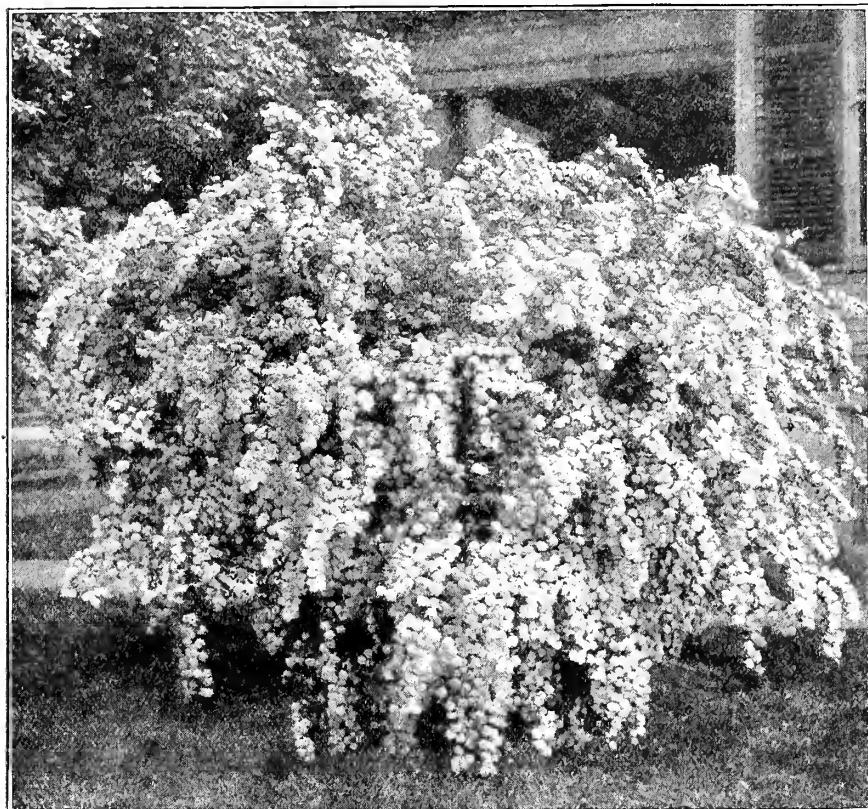
G. W. PEAKE,
Chief Deputy

F. L. WASHBURN,
State Entomologist & Nursery Inspector

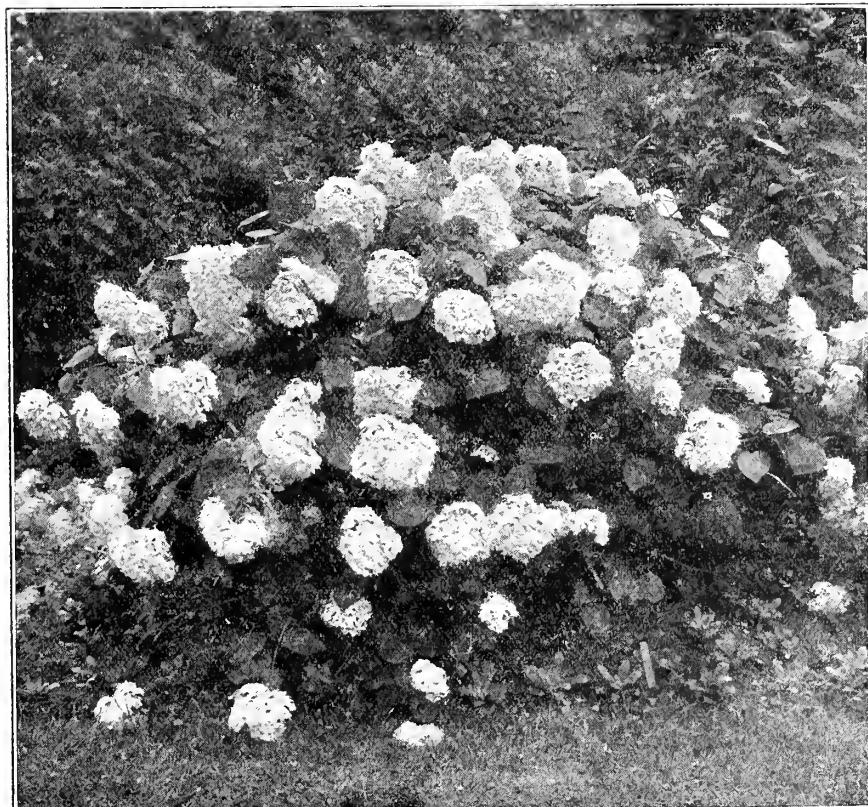
W. W.

The Northwestern Collection of Hardy Shrubs.

Highly Effective and Ornamental for the Home Grounds.



Spiraea Van Houttei or Bridal Wreath.



Everblooming Snowball Hydrangea.

These have been selected as the hardiest and most satisfactory for the Northwest.

They are suitable for planting around the porch as well as about the garden or lawn, and when well established will furnish a succession of beautiful bloom from May until Autumn.

Spiraea Van Houttei or Bridal Wreath.

Pure white flowers in long panicles, which droop almost to the ground, giving the appearance of driven snow. The foliage is very graceful—the small leaves being a fine dark green. Each, 50c.

Hydrangea Paniculata Grandiflora.

The showiest of all autumn-flowering shrubs, bearing immense heads of creamy white flowers. Upon the approach of cold weather these turn to rich shades of pink and coppery red. This shrub is splendid for a specimen lawn plant or mass planting in front of taller shrubs. Each, 50c.

Everblooming Snowball Hydrangea.

This new American Hydrangea is considered by many the most beautiful hardy-flowering shrub ever introduced. It blooms nearly all Summer, bearing large trusses of dazzling white flowers. It is similar to a perennial in its habit of dying back to the roots each Winter, sending up its new top-growth in the Spring. Each, 50c.

Old Fashioned Lilac.

The favorite variety of all fine old gardens. This Lilac bears dense panicles of fragrant lavender blossoms in May. The bush is an upright grower, with large, glossy leaves. Each, 50c.

Snowball.

This popular shrub bears its snow-white flowers in early June. It is perfectly hardy, vigorous and very free-blooming, of erect habit. Each, 50c.

Syringa or Mock Orange.

A graceful, upright bush with long branches and dark green foliage. In June it is completely covered with snowy, white flowers of a delightful, orange-blossom fragrance. Each, 50c.

Northwestern Collection

One of each of the above hardy shrubs, six in all, for \$2.50, by express or freight at purchaser's expense.

No boxing or packing charges on Nursery Stock.

Hardy Ornamental Hedge Plants. Plant in April.

For complete description see pages 106, 107 and 108.

		Per 100
Barberry, Purple	18 to 24 in.	\$15.00
"	12 to 18 in.	12.00
"	Japanese, 12 to 18 in.	20.00
Buckthorn,	3 to 4 ft.	12.00
"	2 to 3 ft.	10.00
"	18 to 24 in.	7.50
"	12 to 18 in.	6.00
Caragana, Sweet Pea Shrub, very hardy	18 to 24 in.	7.50
"	12 to 18 in.	6.00
Honeysuckle, Tartarian	18 to 24 in.	15.00
"	12 to 18 in.	12.00
Siberian Hedgewood,	18 to 24 in.	10.00
"	12 to 18 in.	7.50

Arborvitae and other Evergreens, Buffalo Berry, Hydrangea, Lilac, Spirea, Rosa Rugosa, etc. are suitable for hedging. Ask for prices and information.

Suggestions

Shrubs of all kinds are best planted in the Spring as soon as the frost is out and the ground in condition for preparation. Spade well and use manure or bone meal freely. No rule can be given as to the proper time and method of pruning shrubs. It is well, however, to cut out all dead wood and to remove surplus growth when the shrubs branch too freely, as plenty of air and sunshine are essential for satisfactory results.



EVERBLOOMING SNOWBALL HYDRANGEA



HYDRANGEA PANICULATA GRAND.

LONICERA
BUSH HONEYSUCKLESPIRAEA
AN HOUTTEI

PHILADELPHUS. MOCK ORANGE



SPIRAEA. ANTHONY WATERER

HARDY ORNAMENTAL SHRUBS

Note Collection, page 105.

Key to size and blooming period. To assist the buyer in making selections from groups and in their proper arrangement when planting, we give average height and season for blooming, using figures for the months. Thus "3-4 ft., 7-9" means that the species under ordinary conditions attains a height of 3 to 4 feet and blooms in the months of July, August, and September. For hedges see page 105.

By express or freight only, except where noted. Five at the rate for ten, less than five at the each rate. **Amelanchier botryapum, var. Success.** **Success Juneberry.** 5-6 ft. An improved variety of the native Juneberry. Bears white flowers in late April followed by dark red berries which are edible and of very good quality for pies, sauces, etc. It has a nice habit and fine foliage. Each, 40c; 10, \$3.50.

Berberis. Barberry. *B. vulgaris.* **COMMON BARBERRY.** 4-5 ft., 5. An upright grower with light green foliage, yellow flowers and crimson berries. Each, 40c; 10, \$3.50. *B. vulgaris, var. purpurea.* **PURPLE BARBERRY.** 4-5 ft., 6. Deep purple. Each, 40c; 10, \$3.50.

B. thunbergii. **THUNBERG'S JAPANESE BARBERRY.** 3 ft., 6. Of low, spreading growth, forming a dense, impenetrable bush. Foliage takes on a splendid autumn coloring. Each, 40c; 10, \$3.50.

Caragana Arborescens. **Siberian Pea Tree.** 15-20 ft., 6. An upright grower and very hardy, with beautiful, dense acacia-like foliage. Yellow, pea-shaped flowers. Each, 40c; 10, \$3.50.

Clethra Alnifolia. **Sweet Pepper Bush.** 4 ft., 7-9. A beautiful shrub with rich green foliage; showy white spikes in Autumn. See illustration on opposite page. Each, 50c; 10, \$4.50.

Cornus Stolonifera. **Red Osier Dogwood.** 4-5 ft., 5. Very handsome and popular on account of its dark red bark which makes it peculiarly effective in Winter. Each, 50c; 10, \$4.50.

C. Stolonifera, var. floriflora. **YELLOW-BRANCHED DOGWOOD.** Height 5 to 8 feet. Bright yellow bark in the Winter, particularly effective in shrubberies. Each, 50c; 10, \$4.50.

Corylus. Hazelnut. 4-5 ft., 5. Its fruit although small is of splendid quality. Each, 50c; 10, \$4.50.

Deutzia. D. crenata. 5 ft., 6. Showy, white tinged pink flowers in close spikes. Each, 40c; 10, \$3.50.

D. Gracilis. 3 ft. One of the best low-growing shrubs. Flowers pure white. Each, 40c; 10, \$3.50.

Diervilla rosea. **Rose Flowered Weigelia.** 5 ft., 5-6. A fine rose colored variety from China, bearing large trumpet-shaped flowers. Each, 50c; 10, \$4.50.

Elaeagnus argentea. **Russian Olive. Silver Berry.** 5-20 ft. A beautiful, small-growing tree with light gray, olive-shaped foliage, the young growth being of the same color. The small yellow flowers which appear in June have a delightful, penetrating fragrance. Each, 50c; 10, \$4.50.

Euonymus atropurpureus. **Burning Bush or Strawberry Tree.** 7-8 ft., 6. Broad foliage with small but showy flowers in clusters, followed by crimson fruits. Each, 40c; 10, \$3.50.

Forsythia Fortuncii. **Golden Bell.** 6-7 ft., 4-5. An upright bush with handsome pendulous bright yellow flowers, in early Spring. Foliage deep shining green. Each, 50c; 10, \$4.50.

Everblooming Snowball Hydrangea. (*Hydrangea Arborescens Sterilis*) As many as 100 trusses of pure white flowers have been counted on one plant, some of them $7\frac{1}{2}$ inches in diameter. The ever-blooming habit of this variety is its most remarkable and valuable characteristic, blooming profusely from June until September. See page 105. The top growth always dies back in the Winter, so it starts up from the root each Spring, making it almost a perennial in habit. Each, 50c.

Hydrangea paniculata grandiflora. **LARGE PANICLED-FLOWERED HYDRANGEA.** 7-8 ft., 8-9. The showiest of all autumn-blooming shrubs, bearing immense heads of creamy white flowers, turning to pleasing shades of red with the approach of cold weather. 2 to 3 ft., each, 50c; 10, \$4.50.

Hydrangea. (Tree Form). Trained to a straight stem to produce a small tree for ornamental planting. Should be supported with a stake until trunk becomes heavy. Each, 75c.

Lonicera. Bush Honeysuckle. *L. tartarica.* **TARTARIAN HONEYSUCKLE.** 8 ft., 6. Pink flowers which contrast beautifully with the foliage. A fine shrub for large hedges. Each, 50c; 10, \$4.50.

L. tartarica, var. alba. Creamy white flowers. Each, 50c; 10, \$4.50.

L. tartarica, var. grandiflora. Bright red flowers striped with white. Each, 50c; 10, \$4.50.

L. tartarica, var. splendens. Improved sort with larger flowers, pink. Red fruit. Each, 50c; 10, \$4.50.

Philadelphus. Syringa or Mock Orange. *P. coronarius.* 7-10 ft., 6. Fragrant, pure white. Each, 40c; 10, \$3.50.

P. Gordonianus. **GORDON'S SYRINGA.** Strong, rapid growth; flowers large. Each, 40c; 10, \$3.50.

P. Grandiflorus. **Large Flowered Syringa.** Rapid growth, red bark; flowers large. Each, 40c; 10, \$3.50.

Rhamnus catharticus. **Buckthorn.** 4-8 ft. This variety is being much used for hedges in the north and central states. It is a stiff, twiggy bush and bears shearing well. Dark green foliage and white flowers in June and July followed by showy black fruits. Each, 50c; 10, \$4.50.

Rhus. Sumach. Ornamental, very rapid growing shrubs and trees.

R. cotinus. **MIST OR SMOKE TREE.** 5-8 ft. A vigorous, bushy grower with large panicles of brownish green, feathery flowers in June. Each, 40c; 10, \$3.50.

R. glabra. **SMOOTH SUMACH.** 6-7 ft., 6. Handsome pinnate foliage, assuming splendid autumn coloring; showy spikes of crimson fruits. Each, 40c; 10, \$3.50.

R. glabra var. lacinata. **CUT LEAF SUMACH.** 6-7 ft. Deep cut, fern-like foliage. Each, 50c; 10, \$4.50.

R. typhina. **STAGHORN SUMACH.** 7-10 ft. A large, handsome shrub with brilliant foliage and scarlet fruit in Autumn. Each, 50c; 10, \$4.50.

Ribes. Flowering Currants.

R. aureum. **MISSOURI Currant.** 5-6 ft., 5. Golden yellow, spicy fragrant. Each, 40c; 10, \$3.50.

R. sanguineum. **CRIMSON FLOWERED Currant.** 3 ft., 7. Handsome, deep green foliage and very showy spikes of deep crimson flowers. Each, 40c; 10, \$3.50.

Rosa Rugosa. Japanese Rose. 4 ft. Elegant, broad, shining green foliage; continuous clusters of showy, large, single flowers followed by immense fruits which are very attractive late in the season. We carry two varieties in stock; one having red flowers and scarlet fruit; the other having white flowers and orange colored fruit. See page 95. Two-year-old, each, 35c.

Sambucus. Elder.

S. canadensis. **COMMON ELDER.** 8 ft., 6-7. A useful plant where rapid growth and dense foliage are requisite. Dark purple berries used for jelly and wines. Each, 40c; 10, \$3.50.

S. nigra. **EUROPEAN BLACK BERRIED ELDER.** 6 ft., 6. A medium sized, handsome shrub with purplish black berries in September. Each, 35c; 10, \$3.00.

S. nigra, var. aurea. **GOLDEN ELDER.** A magnificent variety with golden yellow foliage. Indispensable in grouping with other shrubs on account of the enlivening effect. Each, 40c; 10, \$3.50.

S. racemosus. **SCARLET BERRIED ELDER.** 8-9 ft., 5. White flowers followed by dense bunches of vivid colored fruits. Of decided ornamental value. Each, 50c; 10, \$4.50.

Shepherdia argentea. **Buffalo Berry.** 4-8 ft., 5. The coming shrub for ornamental hedges. Very hardy. Has a luxuriant growth of side spurs and the branches cover well with foliage after being trimmed. Leaves are a light green above and silvery beneath, giving an effect similar to the Russian Olive. Is also a very desirable specimen on the lawn. Each, 50c; 10, \$4.50.

Spiraea. Meadow Sweet. This class of shrubs offers a great variety, both in flowers and foliage, making them of great value in a collection. Of easy cultivation and rapid growth.

S. Billardi. **BILLARD'S SPIRAEA.** 4 ft., 6. A strong grower with dull green foliage and dense panicles of bright pink flowers. Each, 40c; 10, \$3.50.

S. Bumalda. 4 ft., 7-8. Very handsome Japanese species, dwarf but vigorous. Flowers rose colored and in profusion. Each, 40c; 10, \$3.50.

S. Bumalda, var. ANTHONY WATERER. 2-3 ft., 7-8. A fine new dwarf Spiraea with dark, crimson flowers, darker than Bumalda. See illustration on opposite page. Each, 50c; 10, \$4.50.

S. callosa. **FORTUNE'S SPIRAEA.** 3-4 ft., 6. Has large panicles of deep rosy blossoms. Grows freely and blooms nearly all Summer. Each, 40c; 10, \$3.50.

S. opulifolia, var. aurea. **GOLDEN SPIRAEA.** 6-7 ft., 6. The strongest grower of this class and one of the most useful. Branches upright though drooping when loaded with its white flowers in June. Foliage is a bright, yellowish gold, finely shaped. An excellent sort for backing shrubbery or mass planting and also for hedges. Each, 40c; 10, \$3.50.

S. salicifolia. **WILLOW LEAF SPIRAEA.** 4-5 ft. An upright grower with narrow, pointed foliage and rosy flowers in June and July. Each, 50c; 10, \$4.50.

S. sorbifolia. **ASH LEAVED SPIRAEA.** 4-5 ft. A vigorous growing bush with large, handsome foliage resembling Mountain Ash. Long spikes of white flowers in July. Each, 40c; 10, \$3.50.

S. Van Houttei. **BRIDAL WREATH.** 4-5 ft., 5-6. The best and most popular of all Spiraeas. Its long, slender branches are arched by their own weight and when covered with the handsome bluish green foliage and masses of white flowers, the branches droop until the tips touch the ground. See illustration on page 105. Each, 50c; 10, \$4.50.

Symporicarpus. Snowberry.

S. racemosus. **SNOWBERRY.** 4 ft. Rose colored flowers in July and August followed by white berries which remain until Winter and make it very showy. Excellent for shaded places. Each, 40c; 10, \$3.50.

S. vulgaris. **CORAL BERRY OR INDIAN Currants.** 3-4 ft. Resembles Racemosus but is more compact. The flowers which appear in July are succeeded by dark purplish red berries in clusters. Valued for its persistent foliage and well adapted for shaded places. Each, 40c; 10, \$3.50.

Syringa. Lilac. We offer below some newer varieties, besides the old favorites.

S. Japonica. **JAPAN TREE LILAC.** 15-18 ft., 6-7. Pyramidal and upright in form, making a handsome little tree. Broad foliage and creamy white flowers; very late. Each, 50c; 10, \$4.50.

S. joskeia. **HUNGARIAN LILAC.** 6-7 ft., 5-6. A distinct species of tree-like growth with dark shining leaves and purple flowers. Each, 50c; 10, \$4.50.

S. persica. **PERSIAN LILAC.** 5-6 ft., 5-6. From five to six feet high with small foliage and bright purplish flowers. Each, 50c; 10, \$4.50.

S. persica, var. alba. **WHITE PERSIAN LILAC.** Delicate white fragrant flowers sometimes shaded with purple. Each, 50c; 10, \$4.50.

S. Siberica alba. **SIBERIAN WHITE LILAC.** 7-8 ft., 6. A vigorous grower; foliage small and narrow, flowers white, bluish tint. Each, 50c; 10, \$4.50.

S. vulgaris. **OLD-FASHIONED LILAC.** 8-10 ft., 5. Bluish purple flowers. Each, 40c; 10, \$3.50.

S. vulgaris alba. **COMMON WHITE LILAC.** Same as Vulgaris but pure white. Each, 40c; 10, \$3.50.

S. vulgaris, var. Chas. X. Leaves large, shiny; flowers reddish purple in loose trusses. Each, 50c.

Viburnum.

V. opulus. **HIGH BUSH CRANBERRY.** 7-8 ft. One of the handsomest shrubs of this species. The large, white flowers are borne in profusion in May and are followed by clusters of scarlet berries which retain their color until late Fall. Each, 50c; 10, \$4.50.

V. opulus, var. sterilis. **SNOWBALL OR GUELDER ROSE.** The old-fashioned, popular Snowball. This has no fruit. Each, 50c; 10, \$4.50.

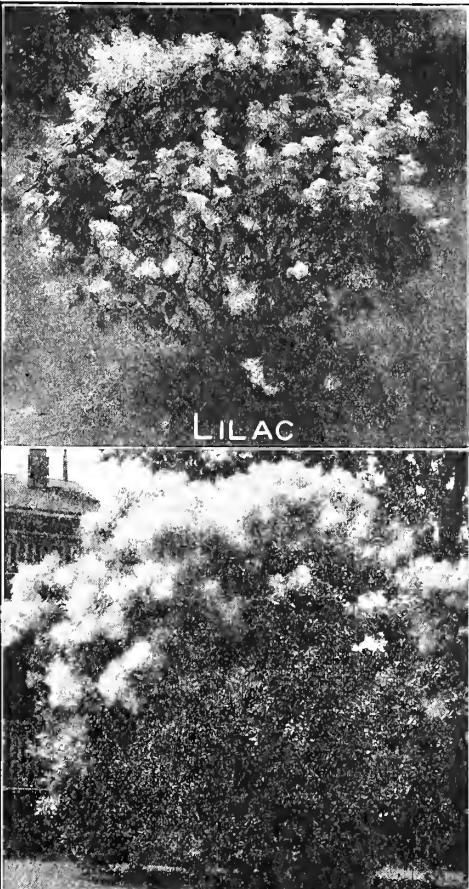
NOTE:—We offer a limited quantity of both these Viburnum in "Tree Form." These are trained up to a single stem allowing branches to come out three or four feet from the ground. They give a pleasing variation from the regular shrubbery effect. Very desirable for lawns. Each, 75c.

For Hedges see page 105. Note collection on page 105.



SNOWBERRY

SNOWBALL



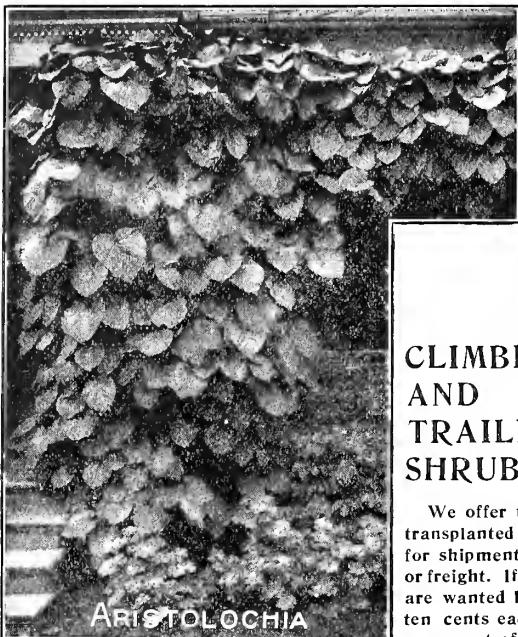
LILAC



RHUSCOTINUS



SPIRAEA SALIXIFOLIA



ARISTOLOCHIA

CLIMBING AND TRAILING SHRUBS.

We offer two-year-old transplanted stock only for shipment by express or freight. If single plants are wanted by mail, add ten cents each, extra, to cover cost of mailing.

Ampelopsis. Woodbine.

A. quinquefolia. COMMON WOODBINE OR VIRGINIA CREEPER. A very rapid climber. Each, 35c, (postpaid, 50c); 10, \$3.00.

A. quinquefolia var. *Engelmanii*. ENGELMAN'S WOODBINE. Clinging tendrils and shorter joints than *quinquefolia* which gives it better ability to climb and cling. Adapted to this climate. Each, 40c; 10, \$3.50.

Aristolochia Siphon. DUTCHMAN'S PIPE. Flowers resemble old fashioned Dutch pipes. One of the most rapid climbers in use, and very desirable for shade or screen purposes. Does best where the full force of the noonday sun does not strike it; its foliage is damaged by too much heat. Each, 75c.

Celastrus scandens. BITTER SWEET. Handsome, glossy green foliage with large clusters of orange-crimson fruits in the Fall. Each, 35c; 10, \$3.00.

Cinnamon Vine. A beautiful climbing vine, which will quickly surround an arbor, window or veranda with a profusion of vines covered with handsome, glossy, heart-shaped leaves, bearing great numbers of delicate white blossoms, which emit a delicious cinnamon fragrance. We know of no vine that is more satisfactory, thriving everywhere, and when once planted will grow for many years and be a source of constant delight. Each, 5c; 3 bulbs for 15c; 6 for 25c, postpaid. Mammoth size, 25c each, postpaid.

Clematis.

C. Coccinea. Bright vermillion, bell-shaped flowers with yellow center. Each, 50c, (postpaid, 60c).

C. Duchess of Edinburgh. Very fine, double pure white. An excellent companion for *C. Jackmanii*. Each, 50c, (postpaid, 60c).

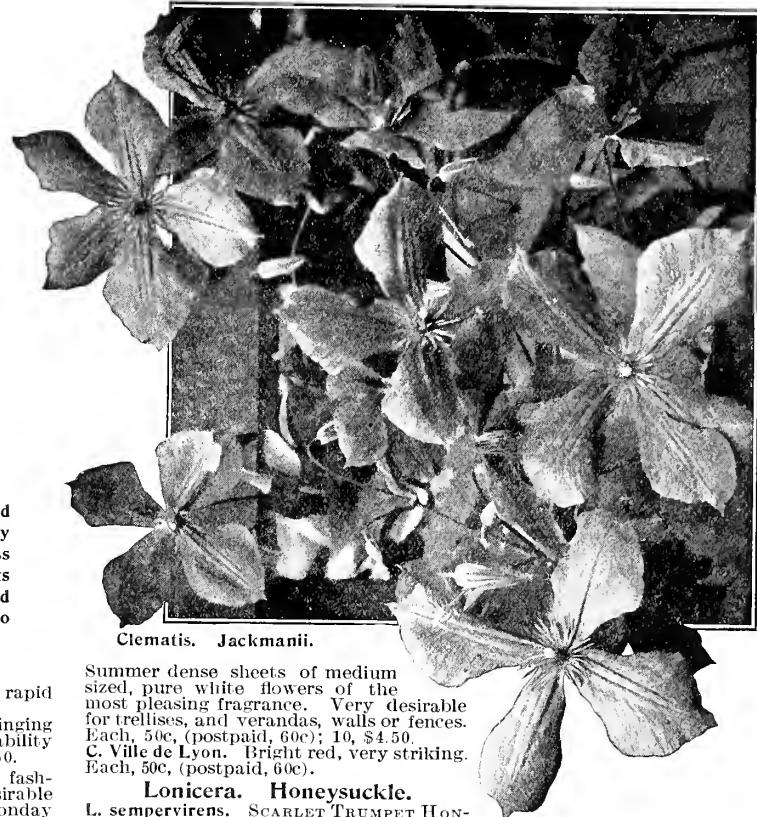
C. Henryii. Vigorous and free bloomer, producing large, pure white flowers during Summer and early Autumn. Each, 50c, (postpaid, 60c).

C. Jackmanii. Flowers are four to six inches in diameter, violet, purple, distinctly veined. Each, 50c, (postpaid, 60c).

C. La France. Very dark purple, flowers of the largest size. Each, 50c.

C. Madame Edouard Andre. Flowers large, of a beautiful bright velvety red, very free-flowering. Each, 50c, (postpaid, 60c).

C. paniculata. JAPANESE CLEMATIS. One of the finest hardy climbers with handsome foliage, extremely vigorous, rapid growth. Produces in late



Clematis. Jackmanii.

Summer dense sheets of medium sized, pure white flowers of the most pleasing fragrance. Very desirable for trellises, and verandas, walls or fences. Each, 50c, (postpaid, 60c); 10, \$4.50.

C. Ville de Lyon. Bright red, very striking. Each, 50c, (postpaid, 60c).

Lonicera. Honeysuckle.

L. sempervirens. SCARLET TRUMPET HONEYSUCKLE. Blooms more or less all Summer. Long, deep crimson flowers borne profusely in clusters. The flowers are followed by ornamental scarlet berries. Each, 40c; 10, \$3.50.

L. flava. MINNESOTA HONEYSUCKLE. A rare form with broad, glaucous foliage; flowers followed by orange-scarlet fruit. Each, 40c; 10, \$3.50.

Lycium chinensis. MATRIMONY VINE. Rapid, dense-growing climber. Pink and purple flowers, followed by brilliant, crimson berries. Berries are poisonous. Vines should be used on walls, etc., so as to hang out of children's reach. Especially desirable for the Northwest. Each, 35c; 10, \$3.00.

Madeira VINE. A rapid and dense-growing climber twining to a great height. Bears fleshy, heart-shaped, light green leaves and long stems of fragrant, white flowers. Each, 5c; doz., 50c, (postpaid, 60c).

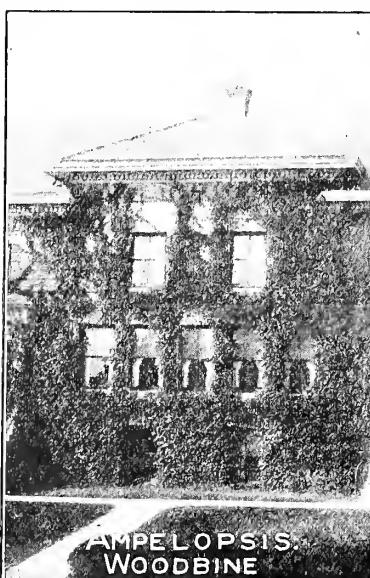
Vitis riparia var. *Beta*. *Beta* GRAPE. A hybrid of the wild grape. The fruit is much larger than the wild grape and of a very much better quality. Especially fine for wine, jellies, etc. Each, 50c; 10, \$4.50.

Wistaria. The Wistaria is particularly valuable wherever tall-growing climbers are wanted. The flowers are borne in long pendulous clusters.

CHINESE PURPLE. Lovely, rich violet-purple; deliciously scented and handsome. Large plants by express, 75c, each, (postpaid, 85c).

CHINESE WHITE. Similar to the purple variety but with pure white flowers. Large plants by express, 75c, each, (postpaid, 85c).

Wistaria frutescens. AMERICAN SHRUBBERY WISTARIA. A fine trailing shrub and valuable in ornamental work. Flowers are a pale blue and borne in short clusters; fragrant. A free bloomer. Each, 50c; 10, \$4.50.

AMPELOPSIS.
WOODBINE

MATRIMONY VINE

CLEMATIS.
PANICULATA

Hardy Trees for Northern Planting.

For April Shipment. Please send orders in February or March.

The best grown trees are Northern Grown trees. Why? Because there are no other trees so vigorous in growth, so hardy in resisting cold Winters and dry Summers, so early to bloom, so early to fruit, as the trees that are grown where the season of growth is short and the season of rest and wood-ripening is long. The demand for hardy ornamental nursery stock is steadily increasing. Each year we receive more orders for this class of stock, and more inquiries as to what varieties are suitable for culture in this latitude. People are coming to recognize that the standard of hardiness applied in the catalogues of nurseries in the eastern and central states is not a safe standard for Minnesota and other Northwestern States.

To meet the demand for hardy stock we have prepared the following list as comprising the best varieties grown and which have been sufficiently tried to warrant their recommendation. Many well known sorts have been omitted for various reasons—lack of hardiness in particular—and the collection thus includes those things which are most desirable and dependable for ornamental planting north of the 40th parallel and west of longitude 85 degrees.

Hardy Shade and Ornamental Trees.

Under this head we include selected varieties of Deciduous Trees best adapted for use in the North, for both ornamental effect and windbreaks.

Our stock in this class is all strong, transplanted, offering well developed roots and good form. The stock quoted here is of the sizes most used for lawn planting, averaging between $\frac{3}{4}$ inch to $1\frac{3}{4}$ inches in diameter and 6 to 12 feet in height according to the variety. Diameter given is at 1 ft. from ground. In most varieties 1 inch trees average 6 to 8 feet, $1\frac{1}{4}$ inch, 8 to 10 feet, etc. By express or freight only, at purchaser's expense.

Acer. Maple.

A. dasycarpum. WHITE or SILVER MAPLE. SOFT MAPLE. The well known North American species; a favorite street tree. $1\frac{1}{4}$ inch, each, 75c; 10, \$6.50; 1 inch, each, 60c; 10, \$5.00.

A. dasycarpum var. *Weirii Laciniatum*. WEIR'S CUT-LEAVED SILVER MAPLE. A remarkable and beautiful tree, much planted in the past quarter century. Its growth is rapid, branches slender and drooping, giving it a habit almost as graceful as the Cut-Leaved Birch.

A. saccharinum. SUGAR or ROCK MAPLE. A well known native tree of elegant pyramidal form. Much used for avenue planting, and makes a splendid specimen tree for its brilliant autumnal coloring. $1\frac{1}{4}$ inch, each, \$1.25; 10, \$10.00; 1 inch, each, \$1.00; 10, \$9.00.

Betula. Birch.

B. alba. EUROPEAN WHITE BIRCH. Tree graceful, quite erect when young but assumes a drooping habit with age. $1\frac{1}{4}$ inch, each, 85c; 10, \$7.50.

B. alba var. *pendula laciniata*. CUT-LEAVED WEEPING BIRCH. This variety is the most popular of all pendulous trees. Its tall, slender yet vigorous growth, gracefully drooping branches, silvery white bark and delicately cut foliage present a combination of attractive characteristics rarely met with in a single tree. Hardy and desirable everywhere. $1\frac{1}{4}$ inch, each, \$1.25; 10, \$10.00.

B. populifolia. AMERICAN WHITE BIRCH. The well known American species; of rapid growth and fine foliage. $1\frac{1}{4}$ inch, each, \$1.00; 10, \$9.00.

Catalpa bignonioides, var. speciosa. Western Catalpa.

Much used in forestry plantings. Its blossoms open two or three weeks later than eastern varieties. Hardy except in extreme seasons. $1\frac{1}{4}$ inch, each, \$1.00; 10, \$9.00.

Fraxinus viridis. Green Ash. Much used as a street tree on account of its fine, regular form and hardy characteristics. $1\frac{1}{4}$ inch, each, \$1.00; 10, \$9.00.

Gymnocladus canadensis. Kentucky Coffee Tree.

A strikingly ornamental, irregular open-topped tree with peculiar, rough barked and twigless branches; immense, broad, double compound foliage of a peculiar, bluish green color. The flowers are white in open racemes followed by large, long, brown pods. $1\frac{1}{4}$ inch, each, \$1.25; 10, \$10.00.

Populus. Poplar.

P. tremuloides. Trembling Poplar. Much used as a street tree and for screens. $1\frac{1}{4}$ inch, each, 75c; 10, \$7.50.

P. canadensis. COTTON WOOD. Well known, tall-growing, native tree. $1\frac{1}{4}$ inch, each, 75c; 10, \$6.50.

P. monilifera. CAROLINA POPLAR. Has sprung into great popularity of late. Pyramidal in form and of robust growth. Valuable for street planting and screens. $1\frac{1}{4}$ inch, each, 75c; 10, \$6.50.

P. fastigiata. LOMBARDY POPLAR. Attains a height of 100 to 150 feet. Remarkable for its erect, rapid growth and tall spirey form. Indispensable in landscape gardening to break the ordinary and monotonous outlines of other trees. $1\frac{1}{2}$ inch, each, \$1.00; 10, \$9.00.

P. balsamifera. BALM OF GILEAD or TACAMAHAC. A remarkably rapid-growing tree with luxuriant foliage and fragrant buds. 1 inch, each, 75c; 10, \$6.50.

Salix pendula. AMERICAN WEEPING WILLOW. A weeping or drooping form. It has graceful, drooping branches, and is of regular habit. One of the most promising novelties in recent years as there is need of a strictly hardy, weeping willow in the North for lawns, parks and cemeteries. A beautiful tree with long pendant, bright yellow branches and red twigs. $\frac{3}{4}$ inch, each, \$1.00; 10, \$9.00.

Sorbus. Mountain Ash. *S. aucuparia*. EUROPEAN MT. ASH. A handsome, ornamental tree with fine pinnate foliage. Bears numerous clusters of bright red berries which are very conspicuous from mid-summer until frost. $\frac{3}{4}$ inch, each, 75c; 10, \$6.00.

S. aucuparia var. *pendula*. WEEPING EUROPEAN MT. ASH. A beautiful variety of decided pendulous habit. Covered from July until Winter with large clusters of bright scarlet berries.

One of the finest trees for lawn ornament in the North. 1 year heads, each, \$1.25.

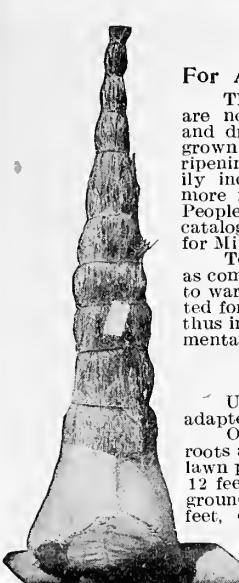
S. aucuparia var. *quercifolia*. OAK LEAVED MT. ASH. A hardy tree of fine pyramidal habit and small size; popular on city lawns. 1 inch, each, \$1.25.

Tilia. Linden. *T. americana*. AMERICAN LINDEN or BASSWOOD. A vigorous grower of pyramidal habit when young but eventually a large, round-headed tree.

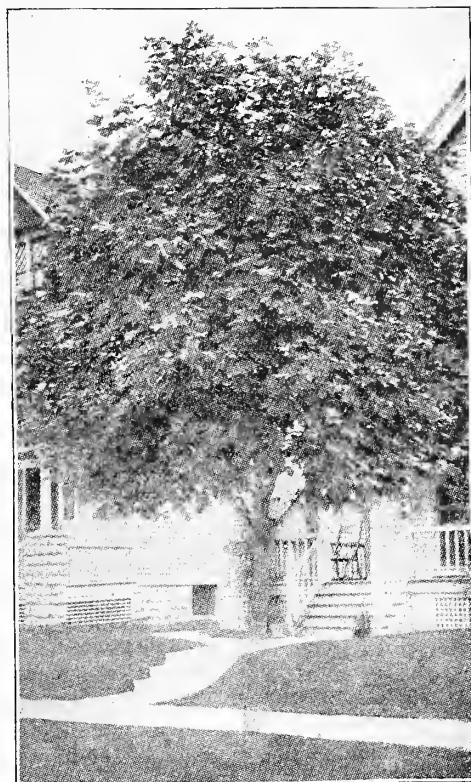
Its foliage is very large and of a light green color. One of the best ornamental trees. Valuable for street planting and also most useful as a specimen tree. 1 inch, each, \$1.00; 10, \$9.00.

T. europaea. EUROPEAN LINDEN. A vigorous grower but of much smaller size than the American Linden. The foliage is smaller and green on both sides. When in bloom it is very handsome. 1 inch, each, \$1.00; 10, \$9.00.

Ulmus. Elm. *U. americana*. AMERICAN ELM. A magnificent native tree and probably the most used of any in the Northwest for street and lawn planting. One of the most characteristic and picturesque of American trees. $1\frac{1}{4}$ inch, each, \$1.25; 10, \$10.00; 1 inch, each, \$1.00; 10, \$9.00.



MOUNTAIN ASH



White or Silver Maple.

Juglans. Walnut.

J. cinerea. BUTTERNUT. A broad, open-topped, ornamental tree with light green, compound foliage and characteristic gray bark. $1\frac{1}{2}$ inch each, \$1.00; 10, \$9.00.

J. nigra. BLACK WALNUT. A well known native tree and very ornamental. 1 inch, each, 75c; 10, \$6.50.

Morus alba, var. *moretti*. RUSSIAN MULBERRY. A valuable ornamental tree. Leaves are serrated with five to twelve lobes and are very ornamental. 1 inch, each, \$1.00; 10, \$9.00.

M. nigra, var. *fraxinifolium*. BOX ELDER. A native tree, Maple-like in its foliage. An extremely hardy and rapid-growing tree; much planted on the prairies. $1\frac{1}{2}$ inch, each, 75c; 10, \$6.50.

P. alba. WHITE or SILVER POPLAR. A tree of wonderfully rapid growth and wide-spreading habit. Leaves large, lobed, glossy green above and white as snow beneath. $1\frac{1}{4}$ inch, each, 85c; 10, \$7.50.

P. canadensis. COTTON WOOD. Well known, tall-growing, native tree. $1\frac{1}{4}$ inch, each, 75c; 10, \$6.50.

P. monilifera. CAROLINA POPLAR. Has sprung into great popularity of late. Pyramidal in form and of robust growth. Valuable for street planting and screens. $1\frac{1}{4}$ inch, each, 75c; 10, \$6.50.

P. fastigiata. LOMBARDY POPLAR. Attains a height of 100 to 150 feet. Remarkable for its erect, rapid growth and tall spirey form. Indispensable in landscape gardening to break the ordinary and monotonous outlines of other trees. $1\frac{1}{2}$ inch, each, \$1.00; 10, \$9.00.

P. balsamifera. BALM OF GILEAD or TACAMAHAC. A remarkably rapid-growing tree with luxuriant foliage and fragrant buds. 1 inch, each, 75c; 10, \$6.50.

Salix pendula. AMERICAN WEEPING WILLOW. A weeping or drooping form. It has graceful, drooping branches, and is of regular habit. One of the most promising novelties in recent years as there is need of a strictly hardy, weeping willow in the North for lawns, parks and cemeteries. A beautiful tree with long pendant, bright yellow branches and red twigs. $\frac{3}{4}$ inch, each, \$1.00; 10, \$9.00.

Sorbus. Mountain Ash. *S. aucuparia*. EUROPEAN MT. ASH. A handsome, ornamental tree with fine pinnate foliage. Bears numerous clusters of bright red berries which are very conspicuous from mid-summer until frost. $\frac{3}{4}$ inch, each, 75c; 10, \$6.00.

S. aucuparia var. *pendula*. WEEPING EUROPEAN MT. ASH. A beautiful variety of decided pendulous habit. Covered from July until Winter with large clusters of bright scarlet berries.

One of the finest trees for lawn ornament in the North. 1 year heads, each, \$1.25.

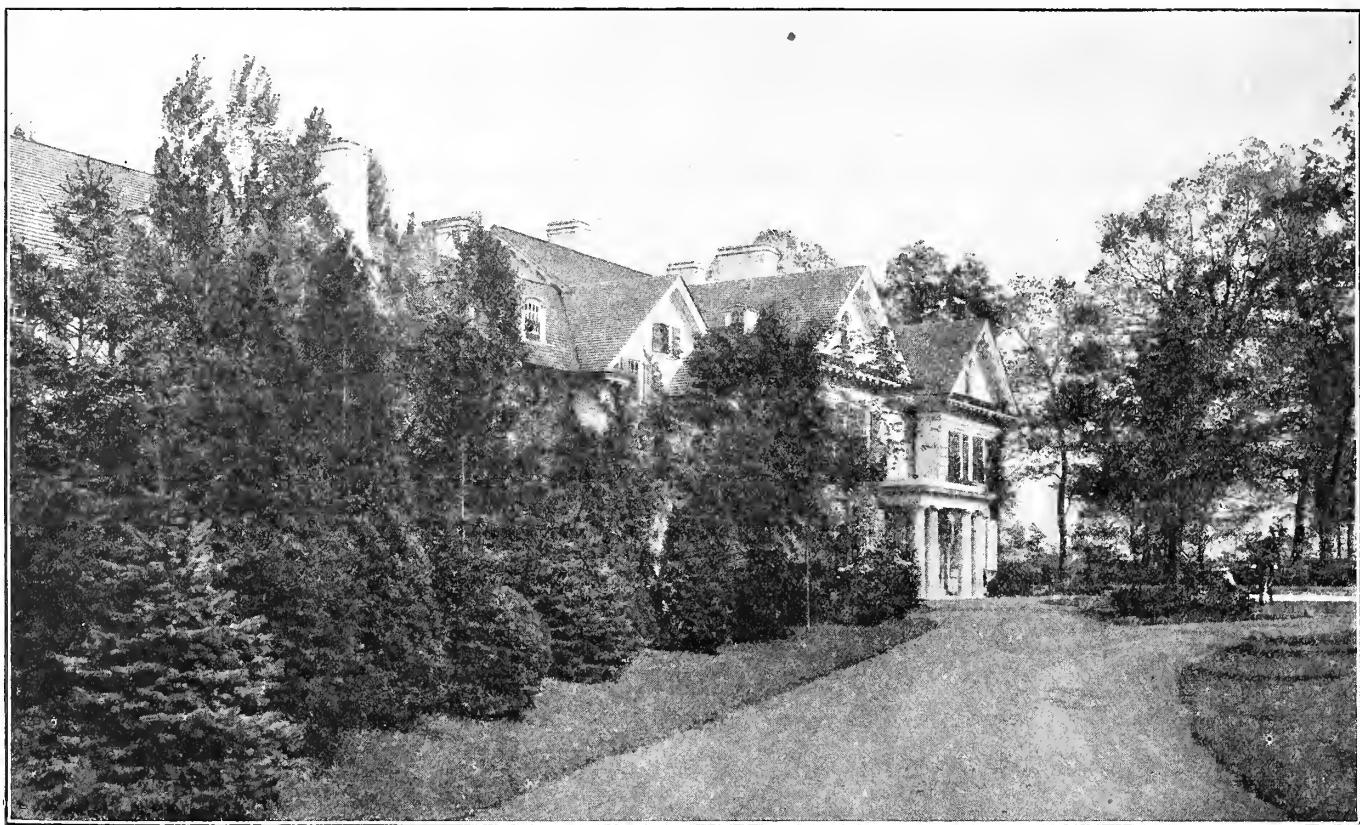
S. aucuparia var. *quercifolia*. OAK LEAVED MT. ASH. A hardy tree of fine pyramidal habit and small size; popular on city lawns. 1 inch, each, \$1.25.

Tilia. Linden. *T. americana*. AMERICAN LINDEN or BASSWOOD. A vigorous grower of pyramidal habit when young but eventually a large, round-headed tree.

Its foliage is very large and of a light green color. One of the best ornamental trees. Valuable for street planting and also most useful as a specimen tree. 1 inch, each, \$1.00; 10, \$9.00.

T. europaea. EUROPEAN LINDEN. A vigorous grower but of much smaller size than the American Linden. The foliage is smaller and green on both sides. When in bloom it is very handsome. 1 inch, each, \$1.00; 10, \$9.00.

Ulmus. Elm. *U. americana*. AMERICAN ELM. A magnificent native tree and probably the most used of any in the Northwest for street and lawn planting. One of the most characteristic and picturesque of American trees. $1\frac{1}{4}$ inch, each, \$1.25; 10, \$10.00; 1 inch, each, \$1.00; 10, \$9.00.



Beautify your home grounds by surrounding them with stately Evergreens, highly ornamental throughout the year, particularly picturesque in Winter.

HARDY EVERGREENS

For planting in April and May. We do not charge for boxing and packing Nursery Stock.

HARDY CONIFERS

The cone-bearing Evergreens which are natives of the northern states furnish some of the most valuable trees for ornamental planting—especially since they alone can give color to the winter landscape when all deciduous trees are bare. Evergreens are a permanent asset. As windbreaks and hedges they raise the temperature, keep the air more moist and protect against damaging winds. Farmers find them invaluable and it is becoming a common practice to surround the orchard with an evergreen shelter belt.

Abies Douglassi. DOUGLAS FIR. A Colorado species. Fast, strong, sturdy grower. Thrives on the poorest of soils. Forms a large, spreading pyramid of light green foliage. 12 to 18 inches, each, 40c; 10, \$3.50; 18 to 24 inches, each, 75c; 10, \$6.50.

Juniperus Virginiana. Juniper. Always popular and can be used in many ways. Thrives well in all soils. Foliage a bright green, assuming a bronzy hue early in Winter. 12 to 18 inches, each, 60c; 10, \$5.00.

Picea. Spruce. Firs for cold climates. Compact and upright growing, retaining its branches to the ground. Foliage is light green with slight blue tinge. 12 to 18 inches, each, 40c; 10, \$3.50; 18 to 24 inches, each, 50c; 10, \$4.50; 2 to 3 feet, each, 75c; 10, \$6.50.

P. Canadensis. BLACK HILL SPRUCE. A handsome small tree. Valuable for cold climates and light, dry soils. Very dense and compact in growth. 12 to 18 inches, each, 60c; 10, \$5.50; 18 to 24 inches, each, 75c; 10, \$6.50.

P. Excelsa. NORWAY SPRUCE. Useful for screens and windbreaks on account of its rapid growth. Transplants easily and is absolutely hardy. 12 to 18 inches, each, 30c; 10, \$2.50; 18 to 24 inches, each, 50c; 10, \$4.00; 2 to 3 feet, each, 60c; 10, \$5.00.

P. Pungens. COLORADO BLUE SPRUCE. A gem of the Rockies. Foliage silvery blue in color. Absolutely hardy and extremely ornamental for lawn planting. 10 to 12 inches, each, 40c; 10, \$3.50; 12 to 18 inches, each, 75c; 10, \$6.50.

P. Pungens Kost. Glaucia. GRAFTED BLUE SPRUCE. Most attractive of the Spruces. Foliage an intense steel-blue. A magnificent variety for planting either singly or in group with other Evergreens. Conical in shape and perfectly hardy. 1 to 1½ feet, with earth ball, each, \$2.00; 10, \$17.50.

HARDY EVERGREENS

Pinus. Pine. P. *Austriaca*. AUSTRIAN PINE. A useful species for lawn planting. Has spreading branches, heavily plumed with long, stiff, dark green needles. 12 to 18 inches, each, 40c; 10, \$3.50; 18 to 24 inches, each, 60c; 10, \$5.00.

P. Banksiana. JACK PINE. Excellent for planting on dry, sandy soils and in hot climates. A fast grower, very hardy. Needles bright green in color. Makes a tremendous growth while young. 18 to 24 inches, each, 40c; 10, \$3.50; 2 to 3 feet, each, 50c; 10, \$4.00.

P. Mugho. DWARF MUGHO PINE. Dwarf variety from Switzerland. Foliage dark green in color with branches stiff and stubby. 8 to 10 inches, each, 60c; 10, \$5.00; 10 to 12 inches, each, 85c; 10, \$7.50.

P. Ponderosa. PONDEROSA PINE. Foliage dark green and very dense. Will grow well in little space. 18 to 24 inches, each, 75c; 10, \$6.50; 2 to 3 feet, each, \$1.00; 10, \$8.50.

P. Resinosa. RED OR NORWAY PINE. Can be used extensively for landscape and windbreak planting. Hardy.



Evergreen Trees by Mail.

Fine for hedges, windbreaks and ornamental lawn planting. Twelve different packages. These packages cannot be broken. By mail postpaid to any part of the United States, \$1.00 per package, 6 packages for \$5.00.

These varieties have been thoroughly tested, proven hardy and reliable; will grow successfully in all parts of the country. Complete planting instructions and cultural directions furnished with each order. Send in your orders as early as possible to avoid disappointment. Shipment will be made in April or May.

1. Norway Spruce. The variety much used for Christmas trees. Very ornamental; of conical shape. 100-2 year.
2. Scotch Pine. A vigorous grower, having long, needle-like foliage which is a pleasing shade of bluish green. 100-2 year.
3. Douglas Fir. Splendid, tall growing variety with regular branches and dark red-brown bark, long needles. 100-2 year.
4. Assorted Evergreens. Five varieties. 100-2 year.
5. Colorado Blue Spruce. Rich, silvery blue foliage; similar to the Norway Spruce in shape. 100-3 year.
6. White Pine. The handsomest of our native Pines. 100-2 year.
7. Black Hill Spruce. Beautiful, small tree rarely over 25 feet high, with slender drooping branches. 50-3 year.
8. American Arbor Vitae. Popular screen and hedge tree. 100-2 year.
9. Dwarf Mugho Pine. A dwarf, spreading tree. 100-2 year.
10. Jack Pine. Grows farthest north of American Pines. Extremely hardy and vigorous. 100-2 year.
11. Red Cedar. Native of Minnesota and the Northwest. Very good for windbreaks. Conical form, dense foliage. 50-2 year.
12. Ponderosa Pine. A rapid grower, forming a stout, spreading tree, with rough bark. Needles dark green. 100-2 year.

Price, postpaid, \$1.00 per package, any 6 for \$5.00.

Evergreens can be safely transplanted long after the deciduous trees and shrubs have come into leaf. Do not postpone planting them until Fall. Do it in April, May and early June.

FOR THE NORTHWEST

Has long, dark green needles which turn to a shade of bronze in winter. 12 to 18 inches, each, 60c; 10, \$5.00; 18 to 24 inches, each, 85c; 10, \$7.50.

P. Strobus. WHITE PINE. The most beautiful of all our native Pines. It is tall and stately, a very rapid grower and valuable for planting everywhere. The needles are long, silvery blue. 12 to 18 inches, each, 50c; 10, \$4.00; 18 to 24 inches, each, 75c; 10, \$6.50.

P. Sylvesteris. SCOTCH PINE. Of pyramidal form with foliage of a silvery bluish green color. A splendid variety for lawn planting. Extremely handsome throughout the winter months. 12 to 18 inches, each, 30c; 10, \$2.50; 18 to 24 inches, each, 40c; 10, \$3.50; 2 to 3 feet, each, 75c; 10, \$6.50.

Thuya. Arbor Vitae. T. *Occidentalis*. AMERICAN ARBOR VITAE. The National screen and hedge plant. Hardy. Responds readily to shearing and can be kept at any height. Flourishes well anywhere. Foliage soft and light green in color. 10 to 12 inches, each, 40c; 10, \$3.50; 12 to 18 inches, each, 50c; 10, \$4.00; 18 to 24 inches, each, 60c; 10, \$5.00.



SELECT NORTHERN GROWN FIELD SEEDS

Owing to the unsettled condition of the market and to the fact that this catalogue is necessarily prepared in advance of date of issue, no prices are being quoted on Grass and Field Seeds. Seed is offered, subject to prior sale. Order early before our stocks are exhausted. Latest values are given on our Red Figure Price List which will be enclosed in this catalogue or mailed to any address, anytime, on request.

NORTHRUP, KING & CO'S.
LINCOLN OATS

Three Heads of
Northrup, King & Co.'s
Lincoln Oats.

Price of Lincoln Oats. This page was written on November 25th and it was too early to fix prices for Spring. See our Red Figure Price List, enclosed in this book or mailed on request.

Reg. U. S. Pat. Off.

The above set of abbreviated words conveys the information that the trade mark in connection with which it is used, has been "Registered in the United States Patent Office." As we were first to use Lincoln as a trade mark for a certain kind of Oats and have continually used it for twenty years, the United States Patent Office has registered this trade mark and gives us exclusive use of same. It is contrary to law for any firm or individual to use our trade mark without our permission. Every bag of Lincoln Oats which we send out will have in addition to the name, the mark, "Reg. U. S. Pat. Off." No other Oats are genuine. Buy Lincoln Oats, either from us, or from those who you are certain obtained their seed from us.

Caution. Do not be satisfied with common, ordinary Oats, such as can be bought at any FEED STORE, when for the slight additional cost of the seed you can secure our Lincoln Oats. The finer quality and larger yield obtainable by sowing our Oats will many times repay the difference in price. The only safe plan is to buy your seed from us or from those who can show proof of having obtained their seed direct from us. Northrup, King & Co.'s Lincoln Oats are sold only in bags, each bearing our trade mark, as shown in illustration at the right. None other are genuine. Don't be imposed upon. You can get our Lincoln Oats if you want them, either from dealers selling our seed, or from us direct; providing of course that our stock is not sold out.

Our Sterling Seal is placed on every bag of Sterling Brand Grass and Clover Seed, both for the guidance of the buyer and to prevent substitution. If seal is perfect and the cord unbroken, it is assurance that the bag contains the best seed to be obtained anywhere at any price.

When buying Lincoln Oats be sure to look for the Trade Mark.

Northrup, King & Co.'s
Lincoln Oat

Drill 2½ bushels per acre.



We believe the Lincoln to be as fine an Oat as was ever introduced for growing in the Northwest. We make this claim after twenty-four years, during which time it has been grown by thousands of farmers over a wide territory and under various conditions of soil and climate. We introduced this Oat in 1893. It was a fine Oat then; it is even better to-day. Our sales have steadily increased from year to year, until now it is difficult to supply the immense demand. Why has it become so popular? Because of the reputation it has attained people will have it, and insist on genuine seed.

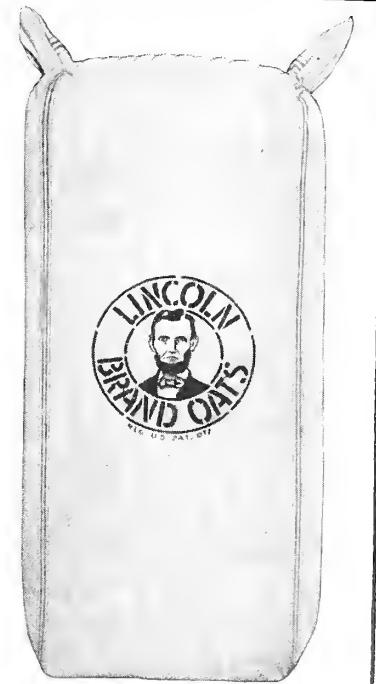
Earliness. This is not the earliest Oat, as its size and heavy yield cannot be attained in the shortest period, but it matures between the small, early Oats and the late varieties. It gives a yield and a quality which will please the most exacting grower.

Adaptability. Our Lincoln Oats are grown in the Northwest and are well acclimated to the extreme weather conditions which exist here both in Spring and Summer. Oats that will grow and thrive and produce big yields in the Northwest, will do well most anywhere, and under nearly all conditions.

Straw. A most essential point in successful Oat growing is to have a variety with stiff, strong, heavy straw. The Lincoln Oat is especially valuable in this respect. It stands up under heavy winds and rarely, if ever, does it lodge. Even on rich soil it gives the most satisfactory results. Another characteristic of the Lincoln Oat is its remarkable stooling propensity, which accounts in part for the heavy yield. On account of its strong, robust, healthy growth it resists rust when other sorts are greatly damaged by this disease. No Oat is entirely rust-proof, but we believe the Lincoln to be as nearly free from rust as any Oat can be. Lincoln Oats have a spreading or sprangle top head.

Quality. The Lincoln Oat has a thin hull, a heavy meat and soft nib. Whether for home consumption or for market, these points of merit go a long way towards deciding the value of your crop. In addition, the color is a fine white, bright and clean. Such Oats usually grade higher on the market than others and a cent or two per bushel on the crop will more than pay the extra cost of seed, to say nothing of the extra yield which may be secured, and the desirability of keeping the land free from weeds.

Yield. We know of no variety which has given as large average yield as the Lincoln, averaging many bushels more per acre than home grown Oats.



Every bag of genuine Lincoln Oats shows the registered trade mark.

OATS

Drill 2 to 2½ measured bushels per acre.



Northrup, King & Co.'s Northland Brand Oats.

uniformly superior quality, carefully selected for fine color and plumpness. The Northland Goose is on every bag.

Last season was not exceptionally favorable for Oats, and much of the home grown crop is unfit for seed. We strongly recommend Northland Oats for everyone who wishes high quality Oats at a moderate price. If your own Oats are run out and yielding poorly, you should by all means get rid of the scrub stock and change your seed.

We especially recommend our Northland Brand Oats to growers who wish to seed a large acreage but who do not care to plant any of our special varieties.

Northland Brand Oats are splendid, heavy white Oats which we believe will give good satisfaction under favorable conditions. The grains are plump and medium pointed, quality good. These Oats are medium early and have strong, stiff straw of good height. See Red Figure Price List for Oat prices.

Big Four Oats. These are very handsome and heavy white Oats of great productiveness, and have become very popular in many sections of Iowa, Wisconsin, Minnesota and South Dakota. They do very well on ordinary soil. On rich, heavy land they grow so rank, the straw not being large in proportion to its weight, that they are much inclined to lodge. Large yields have been reported from this Oat. We offer stock which is of good appearance and which under favorable circumstances will give an excellent yield of good quality. For prices of all varieties of Oats see Red Figure Price List enclosed or write for copy.

Regenerated Swedish Oats. (Heavy Yielding) The Northwest has long produced the best Oats in America, both as regards yield and quality of the grain. We have secured a limited quantity of Northern Grown Regenerated Swedish Oats. These were originally quite a late variety, made early by growing in the high altitude in which they were developed. They are an improved strain of Swedish Oats we have offered for several years.

The Regenerated Swedish Oats are medium early, and under ordinary growing conditions, a yield of fifty to seventy-five bushels is quite common.

The quality of the grain is superior to the Swedish, the kernels being more plump, and very heavy, usually weighing about 44 lbs. to the measured bushel. We recommend sowing 2 to 2½ bushels by measure per acre, depending upon the richness of the soil. These Oats should do remarkably well on rich land providing a thoroughly worked seed bed is prepared and a uniform seeding is made.

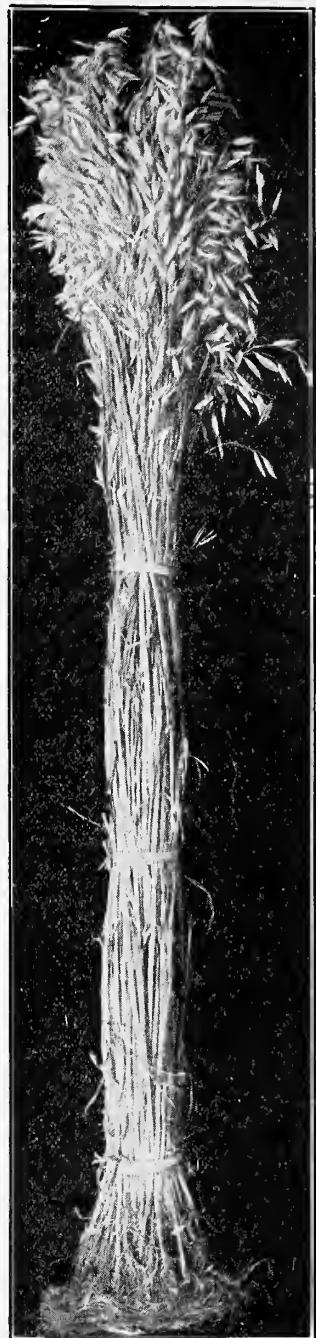
See Red Figure Price List for Oat prices.

Swedish Oats. While it is our desire to have as many of our customers as possible order a quantity of the Regenerated Swedish Oats, our regular Swedish Oats have given such general satisfaction that we know many will still adhere to this favorite. For the benefit of these we have secured seed which is of the usual high standard. At the Wisconsin Experiment Station it has stood at the head of the list for several years, having been distributed by that station as Wisconsin No. 4. Prof. Moore of Wisconsin, says of the Swedish Oat, "The most satisfactory of all." Prof. Carleton of U. S. Department of Agriculture says, "Probably the best American Oat." Prof. Shepard of the North Dakota Station says, "They are the best drought resister of all our new plants."

Its habit of growth is so vigorous that on heavy soils it is likely to lodge, but for light soils it has no superior. See Red Figure Price List for Oat prices.



Swedish Oats.



Northrup, King & Co.'s
Northland Brand Oats.

Abundance Oats.

A superior white variety, largely grown in England and Canada. They are early and for this reason, frequently make a crop when other varieties fail or are damaged by hot weather. The yield is unusually large, surpassing ordinary varieties from 15 to 25 per cent. The straw is stiff and strong. The roots are extensive, making the plants harder and more drought resistant. We offer Northern grown seed, heavy and of extra fine quality. See Red Figure Price List for Oat Prices.

Banner Oats. This variety has been held in high esteem for many years, especially in Canada where it is well known. The seed is quite heavy, weighing up to 45 lbs. per measured bushel.

The chief claim of the Banner Oat to distinction is its earliness, productiveness and uniformity of ripening. It will be noticed with most Oats that when the great body of them is ripe there are many small and immature Oats which do not fill out and which disappear over the tail board in cleaning and are therefore waste. The superiority of the Banner Oat in this particular is very marked.

The straw is stiff, free from rust and of good color, kernels long and hull is thin, making an Oat of fine feeding quality. For prices of all varieties of Oats see Red Figure Price List enclosed herewith or write for copy.

Black Beauty Oats. At the present time but few black Oats are grown in America. Canada has found how good they are and is now growing them very largely. They are also grown quite largely in European countries.

They are preferred by those who have used them, on account of their superior yielding qualities, and the unequalled stiffness and strength of straw.

Black Beauty Oats are the best of all black Oats. They are early, the straw is exceedingly strong and vigorous, and the head is extremely long. On account of its remarkable stooling propensities two bushels are amply sufficient to seed an acre. We have only a limited amount of Black Beauty Oats and will be unable to obtain more after our present stock is exhausted. See Red Figure Price List for Oat Prices.

Black Victor Oats. The proportion of black Oats to white Oats is gradually increasing and will continue to grow as the immense yielding qualities are more generally known. The Black Victor Oat adapts itself very readily to Northwestern conditions and is also very hardy.

It is equal to most white Oats in feeding quality and has the advantage of stiffer and stronger straw. For this reason it does not lodge very readily. The heads are slender but of good length. See Red Figure Price List for Oat prices.

Note—All prices on grain are subject to market changes.

Prices.

Owing to the unsettled condition of the Oat market it is impossible to fix prices at the time this part of the catalogue goes to press. Some varieties are very short this year owing to last season being unfavorable. The late Oats were especially affected by the extreme heat. For prices of all varieties see Red Figure Price List enclosed, or a new one will be sent promptly upon request.

Improved White Russian Oats.

This is quite distinct from most other varieties, being a side or horse mane Oat. It is a well established fact that the true White Russian is as nearly rust proof as any Oat can well be. It is a good yielder and quite hardy. It is one of the latest Northwestern varieties, but on account of its ability to withstand unfavorable weather will be found very satisfactory. See Red Figure Price List.

Kherson Oats. These Oats originally came from Russia, where they were known as the best extra early, hardy, good yielding Oats. Kherson Oats, when ripe are a beautiful yellow in color. They have fine large sprangles or full heads. The leaves are broad and extend nearly to the roots. They are a good yielder under favorable conditions. They do much better than many other varieties in dry seasons, giving a fair crop when other varieties yield hardly 10 bushels to the acre. This variety is especially adapted to soils where others would lodge as it has a short, stiff straw bearing grain nearly one-half its length. It is an immense yielder and on account of its earliness usually escapes rust when other varieties may be entirely ruined. Kherson Oats ripen with barley and the extra early wheats, hence they make splendid succotash mixtures when grown together. We have a fine lot of Kherson Oats for seed. See prices in Red Figure Price List.

Montana Wonder Oat. This strain of wonderfully productive Oats was grown for us in Montana where it is in great favor. We have distributed this variety in many localities in Minnesota, Wisconsin and the Dakotas and every report we have received is highly commendatory. The yield is very large, exceeding many of the well-known varieties when grown side by side. The straw grows tall but is stiff and strong and does not readily lodge. The Oats are borne in long, loose heads and are white and clean. They mature medium early, about a week or ten days after the extra early sorts. See note above regarding prices.

Silver Mine Oats. This Oat has a reputation as an exceedingly heavy and reliable yielder. It is very hardy and prolific and yields beautiful white kernels, which are especially desirable for the manufacture of rolled oats.

The heads are very large in proportion to the stiff, bright, clean straw. The sprangle top heads, although long, are borne low down on the stalk which seems to prevent lodging. The demand for this variety last season exhausted our supply and we suggest early orders to avoid disappointment. For prices of Oats see Red Figure Price List.

Scottish Chief. The original stock of these Oats was imported some years ago from the Highlands of Scotland. They have given splendid results here, in the Northwest, giving big yields of fine quality.

These Oats are very heavy and usually average 40 to 42 lbs. per measured bushel while the grain is extra large and plump. If you wish to raise big white Oats that will grade high on the market, you will be pleased with Scottish Chief Oats. Also the straw is strong and stiff, holding up well and withstanding quite heavy winds.

It readily adapts itself to change of soil and climate and is a good drought resister. See note at top of page regarding prices.

Culture.

Sow Oats at the rate of 2 to 2½ bushels per acre very early in the Spring on a well prepared field with a modern disk grain drill. Deep seeding on heavy clay soils is often fatal to the crop. Two inches is deep enough on a fine, compact seed bed. Where the soil is loose and lumpy a roller or clod crusher followed by a light harrow will increase the yield effectively. This is especially true when a drought occurs early in the growing season.

**Sixty Day Oats.**

Sixty Day Oats. The seed of this valuable Oat was secured in Russia by the United States Department of Agriculture in 1901. Some was sent by the Government to the South Dakota Experiment Station. "With only two exceptions, every farmer to whom we have sold this Oat is still growing it and is much pleased with it. It is similar to the Kherson Oat, which has been a marked success in Nebraska, but it is adapted to a section somewhat farther north than that variety. In North Dakota the Sixty Day Oat has headed the list of varieties under trial for the last three years. It is a small yellowish Oat that weighs about 34 pounds a bushel; the hull is very thin."

The Sixty Day Oat has made a fair crop when other varieties failed entirely. It is so early that it may be harvested with barley, and is three weeks ahead of most other sorts. The average yield of Sixty Day Oats at the Minnesota Experiment Station has been 64 bushels an acre. This is not a side oat. On account of its thin hull the type of Oat to which Sixty Day and Kherson belong is higher in feeding value than most other varieties. In many tests these varieties have ranked highest in the proportion of whole grain to kernel. Sixty Day Oats were worth about three cents more per bushel for feeding purposes than common Oats for this reason. See Red Figure Price List.

Minnesota No. 281 and Minnesota No. 295 Oats.

Prof. Bull of the Minnesota Experiment Station writes us: "Our trials here show No. 295 yields more an acre and has a thinner hull than No. 281. The character of the berry is inclined to be long and slim while that of No. 281 is of the short, plump, potato type. Minnesota No. 295 also seems to resist lodging better than Minnesota No. 281."

The average yield during 14 years at the Minnesota Experiment Station of the No. 295 Oat is 68.9 bu., of the No. 281 Oat 62.2 bu. Both these Oats have spreading panicles. For prices see Red Figure Price List.

Formaldehyde for Smut.

Do not neglect to treat your Oats with formaldehyde before planting. For prices see page 149. One pint makes about 5 gallons, enough for five bushels of Oats.

**A Minnesota Oat Field.**



MARQUIS WHEAT.

Remarkably Early. Exceedingly Productive. Unexcelled in Milling Quality.
Pronounced by Both Farmers and Millers the Finest Wheat for the Northwestern Spring Wheat Territory.

Origin. Marquis Wheat was originated by Doctors Chas. and Wm. Saunders of the Central Experiment Station, Ottawa, Canada, by crossing the Red Fife and the Hard Calcutta, a native Wheat of India which had become acclimated to northern conditions. The first experiments were conducted in 1886, and it was not until 1903 that it was fully developed. By scientific cross breeding, a variety was produced that inherited the remarkable earliness of the Calcutta, and the frost-resistant and yielding qualities of the Red Fife. The original stock of seed was very small, but by careful husbandry the amount was gradually increased so that it might be disseminated throughout America.

A Prize Winner. Marquis Wheat won the One Thousand Dollar prize offered by Sir Thos. Shaughnessy for the best wheat in America, at the New York Grain Exposition in 1911. It also won the Three Thousand Dollar prize at the International Dry Farming Congress at Lethbridge, Alberta, in October, 1912, in a competition open to the whole world. Marquis Wheat was again successful in winning the Sweepstakes prize at the Dry Farming Congress held at Tulsa, Oklahoma in 1913. During seasons 1914 and 1915 this variety won more prizes and blue ribbons than any other Wheat exhibited at national, state and county fairs.

Earliness. Marquis Wheat is from one week to ten days earlier than Red Fife and this fact alone should induce many of our customers to grow it this Spring. Read what Mr. Jas. Austin says about earliness and what it means to the Wheat grower at a time when rust, smut, drought or hot winds may take his crop at any time. This week or ten days may save his entire crop from loss.

Productiveness. Marquis Wheat has out-yielded all other Spring Wheats grown under the same conditions of soil, cultivation and climate. The increased yield varies from 5 to 10 bushels per acre. Threshing reports from the three, big, hard Spring Wheat states this past season indicate the same favorable increase in yield of Marquis over other varieties, as has been the case every year since Marquis was introduced.

Quality. Marquis Wheat has, by numerous milling tests, shown a higher percentage of gluten, a better color, greater absorption and heavy weight per bushel of grain. This question of quality is of great importance to the Wheat grower when he comes to dispose of his crop at the mill or elevator. Almost without exception, Marquis Wheat will grade No. 1. Hard.

Appearance. Marquis Wheat is similar in appearance to Red Fife, but the heads, as a rule, are heavier and the straw shorter, making it less likely to lodge. The kernel is flinty, a little darker in color than Red Fife, being dark red, and more plump than that variety. It is beardless, having smooth, yellow chaff. Under certain climatic conditions a small percentage of the heads sometimes show a reversion to the Hard Calcutta parent by bearing beards. Otherwise these heads are identical with the bald heads, maturing at the same time and containing the same size and shape of kernel. It weighs from 64 to 66 pounds to the measured bushel.



Northern Grown. The seed we offer was raised in the Northwest on new land, the original seed stock coming from the Central Experiment Station at Ottawa, Ontario. Our stock is carefully re-cleaned and we believe represents as fine Wheat as was ever grown in the Northwest. Being raised in the far North, this Wheat has all the inherited tendencies of that locality, earliness, hardness and productiveness. Those who grew Northern grown Marquis Wheat in Minnesota, North Dakota, Montana, Iowa and other northern states last year, are, without exception, loud in their praises of this splendid new variety.

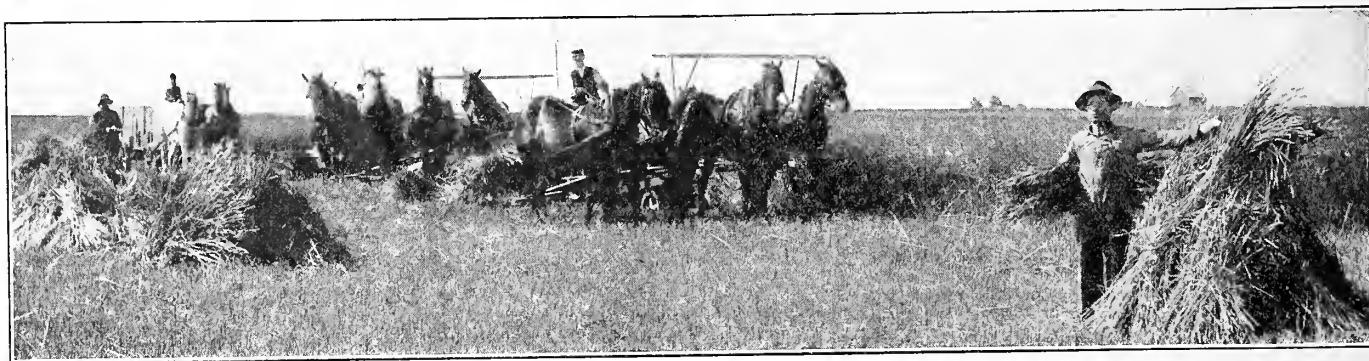
Mr. Austin's Opinion. Mr. Jas. Austin, who has a large farm in the northern part of North Dakota, in 1913 gave us his experience with Marquis Wheat. He said, "You sent me two bushels of your Marquis Wheat two years ago. I sowed this on old land and although it was a poor year, the wheat averaged 25 bushels to the acre. That was just 10 bushels heavier than the other Wheats grown beside it. I sowed that 50 bushels of seed, after screening, on summer fallow and had 1400 bushels of Wheat last year, notwithstanding the fact that weather was unfavorable and the Wheat damaged by early snow-storms and heavy rains in the Fall. I sold that Wheat to my neighbors at 50 cents per bushel premium and did not have half enough. I sowed it again this year and it averaged over 25 bushels per acre on summer fallow or breaking. Not only did it yield better, but it was a week to ten days earlier than other wheats. Not only was this my experience, but all through the neighborhood, everyone I asked concerning it this year, as to how he liked it, said he was pleased because of its earliness and its heavy yield. One of my neighbors over the line in Canada, sowed a carload of Marquis Wheat last Spring. He had over 400 acres. It was ten days earlier than his neighbors and he finished harvesting, threshing and plowing before others had their threshing done. He said to me, "That is the Wheat for me because I get my work done". Of course, you can see the advantage of an early Wheat. You know I took an European trip this year and that would not have been possible had I been sowing other Wheat in the place of Marquis. It was Marquis Wheat that did it".

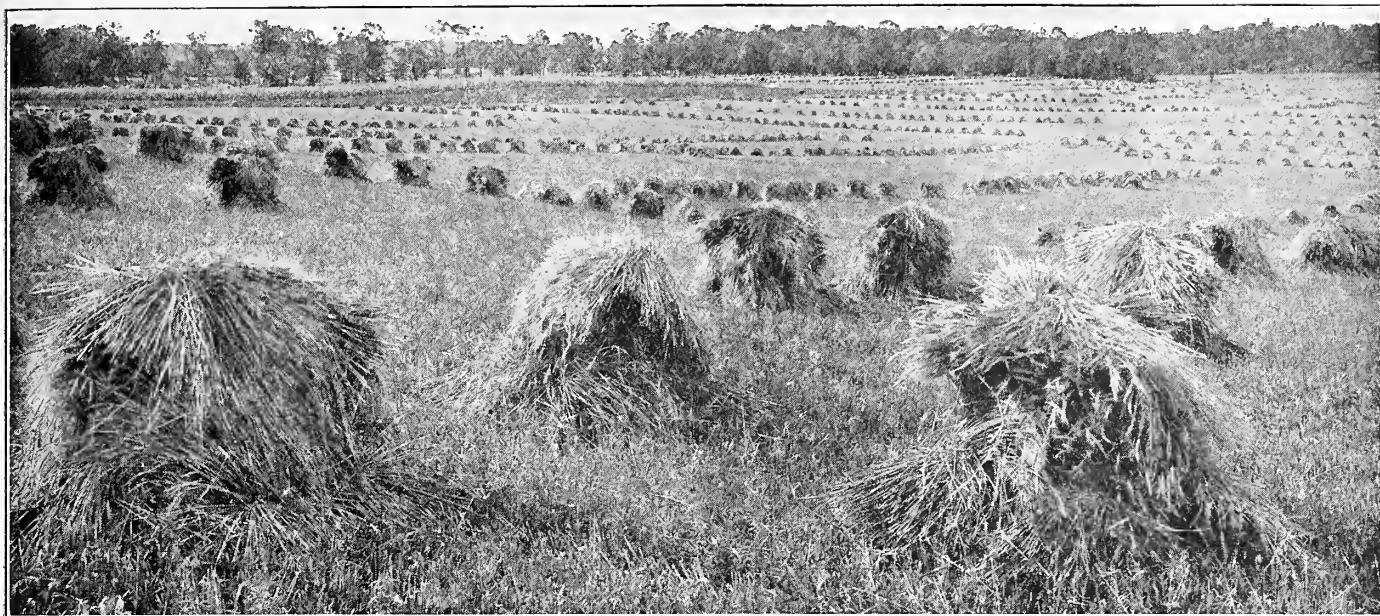
In the fall of 1914 Mr. Austin reported that the increased yield and higher quality of his last crop of Marquis Wheat gave him \$3,000 more profit than he would have received had he sown Fife or Blue Stem varieties.

Milling Test. Marquis Wheat has been tested for milling qualities by several of the large flour mill companies of the Northwest. The Pillsbury Flour Mills Company made the following report:- "Color, 102 white, fully equal to No. 1 hard; the latter is creamy white Marquis is white. Gluten, 40.65 per cent, a high percentage of good, average quality. Absorption, 65, runs from 2 to 2 1/2 per cent better than the average spring wheat. Moisture, 13.5 about the same as the driest Wheat this year. Weight, 63 lbs. per bushel, insuring a good yield of the best quality flour. On the whole, this is an exceptionally fine Wheat and will prove of great advantage to both farmer and miller, and its growth should be encouraged by everyone interested in the production of good grain. M. A. Gray, Chemist". The Russell-Miller Milling Co. said:- "Relying as to our findings and opinion of Marquis Wheat, we have been much interested in this new variety. Have made many milling and gluten tests on its quality and collected such information as we could as to its adaptability to the Northwest. From our tests and observations we believe the Marquis Wheat shows the best milling qualities of any Wheat ever raised in the northwestern Spring Wheat territory. Furthermore, it appears to yield appreciably heavier than Fife or Blue Stem, to mature something like ten days earlier and therefore with better resistance to rust, smut and lodging. We believe your effort to increase the distribution of Marquis Wheat will prove beneficial both to the farmer and miller. We are recommending it very strongly in our North Dakota territory and doing all we can to increase its distribution. All of our investigations and tests indicate that Marquis Wheat will produce a flour of quality superior to the Fife and Blue Stem varieties now raised in the Northwest. H. S. Helm, General Mgr".

Price. We know of no variety of Wheat which has sprung so quickly into popular favor and met with so wide-spread interest as Marquis Wheat.

Considering the increased yield, finer quality and earliness of Marquis Wheat, the first cost of the seed is returned many times over in the additional value which may be secured for the crop. In 1916, this variety was the only Wheat to give a crop in many localities. Wheat is high at this writing and no price is quoted here. See our Red Figure Price List for latest values.





Harvesting Minnesota No. 169 Wheat in Minnesota.

SPRING WHEAT PEDIGREED STOCK

Sow about $1\frac{1}{2}$ bushels per acre.

Northrup, King & Co.'s Northland Brand Red

Fife Spring Wheat. This variety of Wheat has been selected, bred and grown by us and has attained such high quality that we feel it is justly entitled to be called "Northland." All who see this Wheat, both the grain and while growing, compliment us on its superior value and fine appearance. It is as nearly pure as Wheat can be and by cross breeding we have produced a healthy strain, which goes far in increasing the yield and reducing the damage by rust and other enemies. This is the variety which furnishes No. 1 Hard Wheat. It is the best selected stock of the Wheat which has made Minneapolis flour famous all over the world, and is undoubtedly the finest stock of the finest milling Wheat in existence. This is a beardless variety. The kernels are hard and flinty and make the very best grade of flour. We receive a great many letters every year, confirming all the claims we make for this Wheat.

Price of Northrup, King & Co.'s Red Fife Spring Wheat. Lb., 20c; postpaid. Values on more than pound lots could not be given when this page was prepared. See Red Figure Price List for latest quotations.

Minnesota No. 163 Fife Wheat. Of the many crosses obtained within the past few years, the one sent out by the Station as Minnesota No. 163 takes a high rank. The heads are long, well filled with medium sized, plump kernels. Flour made from this variety shows a higher gluten test than most sorts. The straw is medium height, very strong and wiry. At the Station farm this variety averaged two to five bushels an acre, more than the Fife and Blue Stem varieties. The average yield of Minnesota No. 163 Wheat for the past 13 years has been 26.4 bushels an acre.

This tells a story which should interest every intelligent grower of Spring Wheat. Our crop was grown in the Northwest on land which had not grown Wheat for a number of years, and is very clean. This is a bearded variety. For latest values see our Red Figure Price List.

Minnesota No. 169 Blue Stem Wheat. In this we offer the second new Wheat originated at the Experiment Station. It is a progeny of Haynes' Blue Stem. Its average yield for four years as compared with the parent variety, is given by the Experiment Station as follows: Haynes' Blue Stem, 22.5 bushels an acre. Minnesota No. 169, 28.3 bushels an acre.

This comparison with its parent, which is a superior variety, tells the whole story as to yield. This is the best Blue Stem Wheat of which we have knowledge. It has given an average yield during 14 years, through favorable and unfavorable seasons, of 26.7 bushels an acre. In quality it proved in milling tests equal to the best. This variety has no beards. Latest values are given on our Red Figure Price List.

WINTER

Northrup, King & Co.'s Minnesota Reliable

Winter Wheat. The yield of Winter Wheat an acre is on the average very much larger than any of the Spring Wheats. Winter Wheat has not been extensively grown in Minnesota and the Dakotas until recent years, on account of its inability to withstand the severe Winters. Since the introduction, however, of Minnesota Reliable

Winter Wheat this has gained the attention of all Winter Wheat growers and the Experiment Stations and is recommended above all other varieties. There has not been a season in 24 years in which this variety has failed to endure the severe tests to which it has been put, including unfavorable weather during Fall and Spring months.

Minnesota Reliable Winter Wheat is very early, ripening before rust, blight, chinch bugs or other insect pests appear. It yields from 30 to 40



Northrup, King & Co.'s Northland Brand Blue

Stem Wheat. Our location here on this, the largest Wheat receiving market in the world, places us in a position to select many carloads of nice Blue Stem Wheat which when graded and purified in our special machinery, makes good seed for seeding large areas. When a change of seed is desired and the buyer does not wish to invest in our selected seed wheat, this Fancy Blue Stem will give profitable returns. We believe it to be as clean and pure as any Wheat can be which has not been especially grown for seed, and is much better than some that is so offered. See Red Figure Price List enclosed in this catalogue for latest prices.

Velvet Chaff Wheat. This is a bearded, smooth chaffed variety, very hardy and a big yielder. In some sections of Minnesota it yields from two to ten bushels more per acre than the Blue Stem. It is early in maturity, from 110 to 115 days. It is being bought on the market at a price slightly less than that paid for other Wheats. The Minnesota Experiment Station reports a 14 year average yield of 26.7 bushels. For latest values see our Red Figure Price List.

Macaroni or Durum Wheat. Sent out by the United States Department of Agriculture under strong recommendation as to its great value for semi-arid lands where good crops of Spring Wheat could not ordinarily be produced, has more than justified every claim made for it. The acreage of this variety is increasing every year in spite of the opposition of some millers. It out yields by far any other variety of Spring Wheat, and it has been demonstrated that it makes bread superior to that made from the best Fife Wheat flour, and has proved to be practically immune to the dreaded rust. In growing it resists extremes of weather, which no other Wheat will endure. It is now being received in the Minneapolis market (the largest Wheat receiving market in the world) and sells equally as well as Hard Spring Wheat and in some cases commands a premium.

In the field this Wheat grows very strong and with surprising rapidity, so rapidly as to get well ahead of the weeds. It does not shell or bleach and is also hail proof owing to the tightness of the hull. The straw is very strong. Prices could not be established when this book went to press, but values are given on our Red Figure Price List enclosed or sent on request.

Succotash Mixture—Wheat and Oats. There is a growing demand by stockmen for a variety of Wheat that will ripen with Oats, to be mixed and grown for feed. Marquis Wheat appears to be the ideal variety for this purpose. Sow a half and half mixture by measure; set the seeder to sow two bushels of Barley per acre which will make a proper seeding of the mixed grains. The quality and yield of both Wheat and Oats are improved when grown as a mixed crop. When ground, this succotash mixture makes an excellent home grown feed for all kinds of livestock.

WHEAT

bushels an acre and sometimes more on good soils. In quality, it equals the well known No. 1 Hard Fife Spring Wheat and commands a premium from millers.

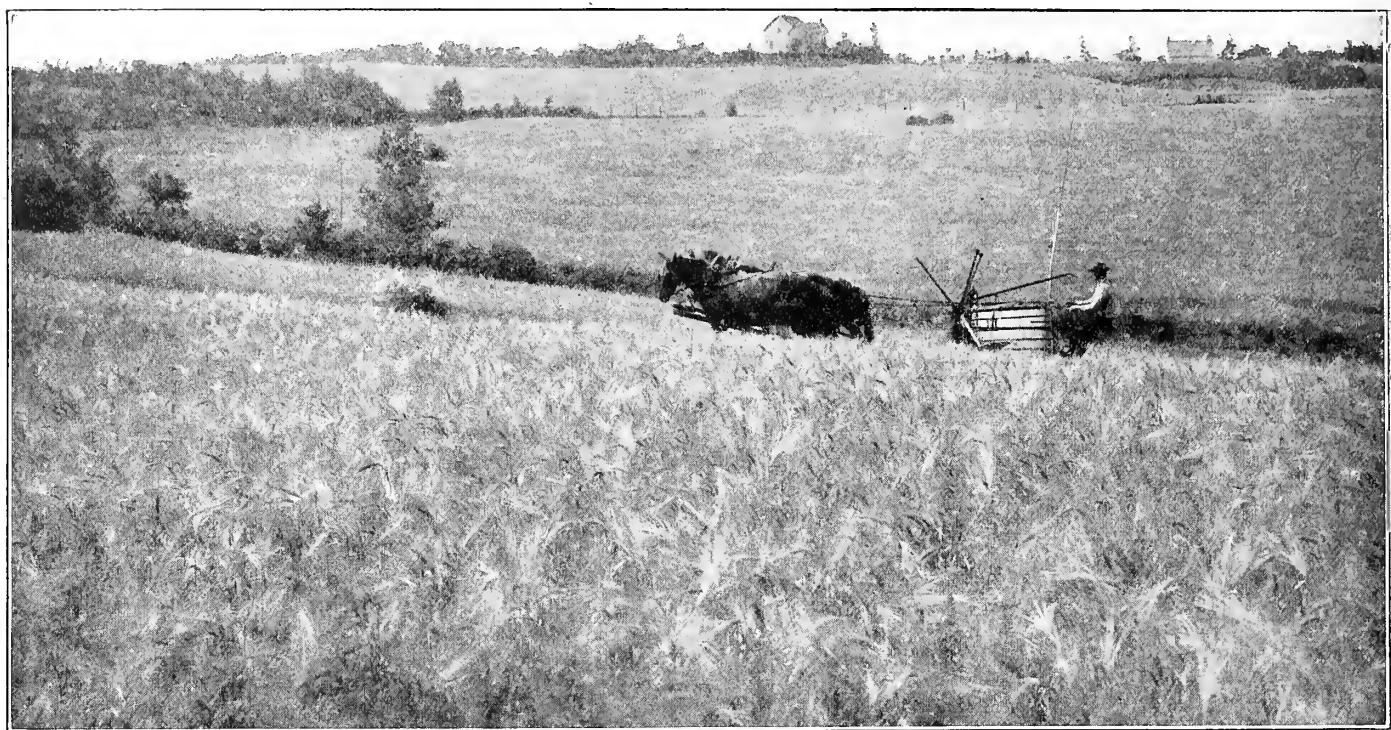
It is a bearded variety; the kernels are red with a very thin husk, are hard, flinty and very rich in gluten. It is stiff-strawed and will stand up in wind and rain which would lodge some varieties very badly. Reserve your seed supply by ordering now, for new crop seed in the Fall. Too early to name prices, because of unusual market conditions.

Turkey Red Winter Wheat. A standard, red, bearded Wheat with very strong straw. It is a heavy cropper. Prices will be supplied on request during the Summer. Please write us when ready to place your order.

All prices on grass and field seeds are not quoted here but see latest Red Figure Price List for current values.

BARLEY

Prices on Barley not quoted here. See latest Red Figure Price list for present values.



For a good stand like this, plant Northrup, King & Co.'s Northland Brand Six Rowed Barley.

CULTURE. Since Barley is a shallow rooted crop, the soil should be made very fine and firm, with plenty of available plant food. If the soil is not fertile, you should enrich it some time before seeding, preferably by the use of barnyard manure.

Sowing the Seed. Early seeding usually produces the best yields. However, Barley is a crop that often succeeds well when sown about corn planting time. Use a drill, planting the seed about two inches deep. Two bushels of seed per acre is the amount usually sown. Barley makes an excellent crop to follow corn that has been grown on clover sod. When thus sown, disk ground before plowing and again immediately after. This will prevent the formation of clods in the soil and make a good seed bed. Roll and harrow after seeding if the soil is loose.

Prices. Some growers may hesitate about buying Barley this year on account of values being some higher than usual, but it should be borne in mind that those who sowed good seed last Spring, obtained a better price for their crop last Fall.

Manshury Barley. We believe this to be as fine a Barley as was ever offered the farmers of the United States.

Pedigreed Manshury Barley represents the combined efforts of State and National Experiment Stations and private work of Barley experts to produce a variety which will yield plump grains with the greatest protein content, as well as strong, stiff straw and long, well filled heads. In quality both as to feeding value and for malting purposes no other Barley excels it. It yields abundantly. It is early and very vigorous in growth. The straw is strong and stiff. Seldom does a field of this grain lodge. The heads are long and well filled, the grain plump and of the best quality.

This Barley was selected on account of its yield, its desirability as a feeding and malting Barley and the ready sale with which it meets on account of its good color.

Those desiring to obtain seed to replace run out varieties will do well to purchase at least one or more bags of Manshury.

Because this catalogue must be prepared far in advance of issue, all prices will be found on our Red Figure List.

Minnesota No. 105 Barley. For several years the Minnesota State Experiment Station has been breeding and testing many varieties of barley with a view to producing an improved sort that would lead all other kinds in the matter of yield. This ambition, the Station considers, has been realized in the six-rowed variety here offered under the name of Minnesota No. 105. In comparative tests covering a period of several years and made side by side with the best known and most popular varieties, it has proven to be the heaviest yielder, and from any standpoint, a most valuable acquisition. Minnesota No. 105 Barley has given a nine year average of 53 bushels an acre at the Station farm. It is early, uniform in maturing and clean. Quantity limited. Two bushels of Barley will seed an acre. Prices will be printed on our Red Figure Price List, issued frequently during the season. Mailed to any address on request.

Beardless Barley. The strong feature distinguishing the troublesome beard, common to all other varieties except the Improved White Hulless, for it is absolutely without beard. It is on this account not only much more agreeable to handle in threshing than other Barleys, but it is much safer and better to feed to live-stock. As a fattening agent for swine Beardless Barley is particularly valuable. It is frequently used in succotash mixtures on account of the absence of beards, and in pastures where swine are allowed to feed will be found especially valuable. Very scarce. Values on Barley and other field and grass seeds are quoted on our Red Figure Price List which will be mailed free on request.



Northrup, King & Co.'s Northland Brand Six Rowed Barley. The greatest value for a reasonable price, of uniformly superior quality, carefully selected for high purity and strong germination. The Northland Goose is on every bag.

The splendid Barley crop this year offers you an unusual opportunity to change your seed and obtain superior seed Barley at low cost.

The U. S. Dep't. of Agriculture advises farmers in Bulletin No. 443 as follows: "The seed is a vital factor in the production of good Barley, for it contains the germ and food material to start either a strong and vigorous plant or a weak and puny one. If the seed is small and shriveled maximum yields cannot be expected." Bearing this in mind, we have taken great pains to select extra good seed Barley to start with, and then clean it thoroughly by special machinery so it will be of superior quality. We recommend it strongly as a good yeller under favorable conditions. Values on Barley and other field and grass seeds are quoted only on our Red Figure Price List which will be mailed free on request.

Oderbrucker or Wisconsin No. 55 Barley.

On account of Barley being one of the staple crops, the State Experiment Station of Wisconsin has given particular attention to the breeding of Barley to obtain big yields, protein content and other qualities which are essential for both brewing and feeding purposes. Oderbrucker or Wisconsin No. 55 is considered the best variety of Barley sent out by the Wisconsin Station. Prof. Moore declares it to be superior to the Manshury, yielding 5 to 10 bushels more an acre. Oderbrucker is a stiff-strawed, heavy yielding, six rowed, bearded variety. It is about the same as Manshury in time of maturity, manner of growth and general appearance, but has a plumper kernel and weighs more to the measured bushel. Prof. Moore says: "In stiffness of straw and rust resistance it is superior to any other variety on test." Two bushels of Barley will seed an acre. Prices will be printed on our Red Figure Price List, issued frequently during the season. Mailed to any address on request.

Chevalier Barley. This is a two-rowed variety which is very popular with many farmers. The grain commands a high price on account of its fine appearance and superior malting qualities. The heads are a little longer than the six-rowed varieties and the berry is larger. Many Canadian farmers prefer this variety on that account. Lb., postpaid, 20c. Larger quantities than pounds are quoted on our Red Figure Price Lists which are issued frequently during the Spring. Sent to any address on request.

Highland Chief Barley. This is also a two-rowed variety of very fine quality. Several years ago we sent a sample of this Barley to one of the largest malting firms in the United States, and they wrote us that during an experience of sixty years they had never seen such a handsome sample of Barley. It is a vigorous grower and the grain is much larger than the six-rowed varieties. It is less likely to be damaged by rain than most other kinds, as it is much more closely covered with broad awns or spikelets. Lb., postpaid, 20c. Larger quantities than pounds are quoted on our Red Figure Price Lists which are issued frequently during the Spring. Sent to any address on request.

About Quality.

Grain of all kinds this past season was very much inferior both in quality and yield. It is especially important that good seed be secured so as to give maximum results. As good seed is scarce, buy early to avoid disappointment.

All prices on grass and field seeds subject to market changes.
See Red Figure Price List.

IMPROVED WHITE HULLESS BARLEY



Its Valuable Properties.

IT IS HULLESS; IT IS BEARDLESS; IT IS VERY EARLY
IT WEIGHS OVER 60 POUNDS TO THE MEASURED BUSHEL
IT YIELDS WELL ON POOR LAND
IT YIELDS ENORMOUSLY ON GOOD LAND
IT MAKES BETTER PORK THAN CORN
WHEN CUT GREEN, IT MAKES GOOD HAY
IT IS OF INESTIMABLE VALUE TO STOCK FEEDERS

No barley of which we have knowledge has proved so valuable to the stock raiser as the Improved White Hulless. It is not a malting variety, but for feeding purposes there is no barley raised which can compare with it in earliness, yield and quality. It has many very valuable properties. While it has sufficient hull to hold it in the head, these hulls are readily separated in threshing. The absence of beards makes it safe to feed to all kinds of stock. Its earliness is a characteristic which is especially desirable. It will mature in 60 to 90 days, according to soil and locality. In Montana the farmers use it very extensively as a catch crop. Those seasons in which wheat failed on account of drought, insects or disease, White Hulless Barley was sown in June and had ample opportunity to mature, provided there was sufficient moisture in the ground to start germination.

The grain is exceedingly heavy, weighing from 60 to 63 pounds to the measured bushel. The yield varies according to soil and climatic conditions, but it can be depended upon to produce from 35 to 80 bushels an acre. Its nutritive value is very great. It is fed to work-horses at the rate of 2 quarts where 4 quarts of oats would be required. The best way is to mix it with oats and grind the two together for horse feed. It is also very valuable for feeding poultry, hogs and all kinds of stock. As fattening feed for hogs it has no equal. It makes sweeter meat and nicer lard by far than corn.

It is often grown for hay, coming very early and providing rich feed. It should be cut just before it becomes ripe and while the straw is green. In this condition it is relished by all kinds of stock. The straw is stiff and straight, and seldom if ever does it lodge.

For grain
sow 1½ bushels to the acre; for hay, 2 bushels. Prices, lb., post-paid, 20c. For larger than pound lots see our Red Figure Price List, which is issued frequently during the Spring. Mailed free to any address on request.

SPELTZ OR EMMER

FACTS ABOUT SPELTZ.

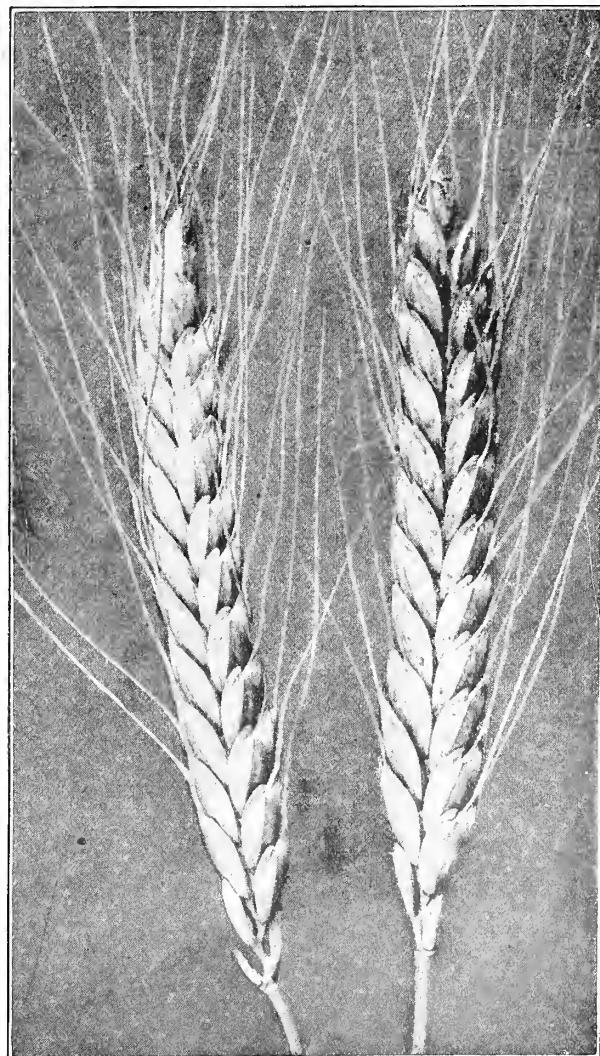
IT RESISTS DROUGHT
IT THRIVES ON POOR LANDS, IN STONY GROUND
IN FOREST REGIONS, ON THE PRAIRIES
IT MAKES A CROP WITH ALMOST ANY CONDITION OF
SOIL AND CLIMATE
ENDURES A GREAT DEAL OF FROST
IS NOT READILY DAMAGED BY HARVEST RAINS
IS NOT SUSCEPTIBLE TO RUST OR SMUTS
YIELDS MORE THAN OATS, WHEAT OR BARLEY
MAKES BETTER FEED THAN BARLEY
MAKES EXCELLENT FLOUR
STOCK EAT BOTH GRAIN AND STRAW
RIPENS VERY EARLY

Speltz has now been grown in the United States in a large way for several years and each succeeding season not only emphasizes its value, but sees its production increasing to an enormous extent. It is found to be adapted to a wide range of soil and climate, to resist extremes of weather, to be of excellent feeding value and to yield so much more heavily than oats and barley as to insure its increasing popularity and its eventual place among the leading and standard cereal crops of the world. Those who have not grown Speltz should not let another season go by without giving it a place and an important place, too, on their farms.

It is readily eaten by all kinds of stock and has shown itself to be especially adapted when fed to milch cows. It is better to mix it, however, with bran and shorts, as it is a pretty heavy feed when fed alone. As a swine feed, we think very well of it indeed, especially for brood sows. While not quite equal to oats, it makes a fair horse feed.

Its most striking value is found in its drought-resistant qualities. Drill two bushels per acre.

Prices on all grains, field and grass seeds are listed on our Red Figure Price List, issued at frequent intervals during the season. Values could not be determined at the time this part of the catalogue went to press.



SEED FLAX

All prices on this page are subject to market changes.

Culture. Flax should not be sown on same land oftener than once in seven years. Treating the seed with formaldehyde before sowing, is often advisable, see page 149. Before sowing, the ground should be thoroughly prepared and it is especially important to have the soil well firmed. Be sure there are no open spaces in the bottom of the furrows as these are likely to cause the roots to rot. Sow 25 to 30 pounds per acre; sow as early as possible and yet avoid the last killing Spring frost. In the southern counties of Minnesota Flax may be sown as late as June 20th, although this will depend largely upon the season.

Minnesota No. 25 or Primost.

This is a pure bred Flax. It was selected from many varieties sent by U. S. Dep't. of Agriculture to the Minnesota Experiment Station. Here tests were conducted for many years and this variety proved by far the most promising. It showed an average yield of 19.3 bu. per acre for 3 years. This was 3.4 bu. more than the average of three commercial varieties. There can hardly be a doubt that this is the champion variety of the Northwest.

A few years ago seed was sent to a number of Minnesota farmers by the Experiment Station to test the Flax under ordinary farm conditions.

The average yield per acre was 15 bu. which was 3.1 bu. more than common Flax or an increased yield of 26 per cent.

We have to offer this season a few carloads of very fine Minnesota No. 25 or Primost Flax. The supply of this particular lot of seed is not nearly sufficient to cover the demand we will have for it and for that reason urge early orders if you desire to obtain some of this desirable Flax.

The following quotation from a letter received from one of our customers calls attention to the extreme earliness of this Flax, a feature equal in importance to its yield:

This No. 25 Flax is fully ten days earlier than any other Flax. This ten days means a great deal to the flax growers of North Dakota. In former seasons I have lost my entire crop when if I had had this Flax it could easily have been saved. I regard this No. 25 Flax as being of inestimable value to the farmers of the Northwest.

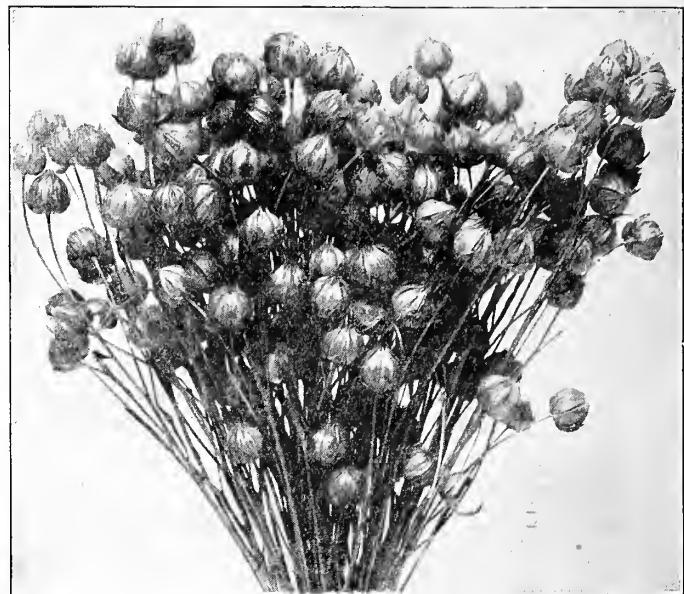
JAMES AUSTIN.

This valuable Flax is also wilt-resistant to a very considerable extent. Price, lb., 20c, postpaid. Values on larger quantities given on our Red Figure Price List. Seamless cotton grain bags holding 2½ bushels, each, 30c extra. Write for special prices on large lots.

N. D. No. 52 Wilt Resistant Flax.

Flax seed which is resistant to wilt has been bred by continually growing flax on wilt-sick land. Those plants which survive produce seed which is more resistant to the disease than the previous generation. Repeated sowing of each crop on the same land will in time produce seed which is practically immune to the effects of the wilt trouble.

The N. D. No. 52 Flax which we offer was grown in the Northwest by a farmer who states that he could raise no Flax on his land until he got this seed. During the dry season of 1913 under trying conditions he secured a good crop, averaging over 10 bu. per acre. Under ordinary conditions the yield should be much greater. N. D. Press Bulletin No. 57 states, "Wilt Resistant seed as obtained by this department is capable of growing a normal crop of Flax, or even better, on old wilt-sick lands, previously long cropped to flax. Such seed will keep this resistance against wilt just as long as the seed is properly handled". Price, lb., 20c, postpaid. Values on larger lots variable. See Red Figure Price List. Seamless cotton grain bags holding 2½ bushels, each, 30c extra. F. O. B. Minneapolis.



Specimen Heads of Minnesota No. 25 or Primost Flax.



Northrup, King & Co.'s Northland Brand Seed Flax.

The greatest value for a reasonable price, of uniformly superior quality, carefully selected for high purity and strong germination. The Northland Goose is on every bag.

Prof. Bolley of the N. D. Experiment Station especially recommends "plump, bright colored seeds—because they probably grew upon strong or vigorous mother plants and are thus not likely to be internally diseased." Northland Brand Flax is meeting with approval throughout the Northwest. It ripens in midseason and under favorable conditions, yields splendidly.

Cleaning Flax so as to make it suitable for seed is an expensive operation, requiring special machinery and often involves considerable waste, but we take great care to do this thoroughly. Mustard, being the same size and weight, is very difficult to remove. Send for sample and note its splendid quality. Special prices on large lots.

Price, lb., 20c, postpaid. Because of the great variation in market values we do not attach prices here but refer you to the Red Figure Price List.

BUCKWHEAT

Seeding. Sow $\frac{1}{2}$ to 1 bushels per acre, as late as possible and still have crop well developed before severe frosts occur. Light, well-drained soils are best for this crop.

Japanese Buckwheat. Entirely distinct from all other varieties. It has the advantage of remaining for some time in bloom and produces seed earlier. On this account it can be grown farther north. It resists drought and blight very well. The seed is rich dark brown in color and larger than Silver Hull. As much as forty bushels to the acre have been harvested of this variety making it very profitable to raise. Buckwheat is now sold at 50 lbs. to the bushel. See Red Figure Price List for latest values.

Silver Hull Buckwheat. This valuable variety originated abroad and is a decided improvement on the old black or gray sort. It is early, remains longer in bloom than other sorts. A fine variety for honey bees. The grain is of a beautiful light gray color, and has a thin husk. Millers prefer Silver Hull, there being less waste and it makes whiter, better and more nutritious flour than other varieties. Silver Hull is more productive and the grain meets with a more ready sale, bringing higher prices than the Japanese. Under favorable conditions it will yield 40 to 50 bushels an acre. See Red Figure Price List for latest values.

RYE

Spring Rye. True Stock. Spring Rye makes an excellent crop where winter grain has been killed out, or for sowing where a fall crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. Sow seed same time as other spring grain. Does not grow quite so large straw as Winter Rye, but usually yields well and grain is of fine quality.

We wish to emphasize the fact that we sell the genuine Spring Rye, sown in the Spring and harvested the same season. We now offer an extra fine grade. To insure receiving enough for your requirements we advise placing your order early, as we have only a limited quantity. Sow about $1\frac{1}{2}$ bu. per acre. See Red Figure Price List for latest values.



Northrup, King & Co.'s Amber Winter Rye.

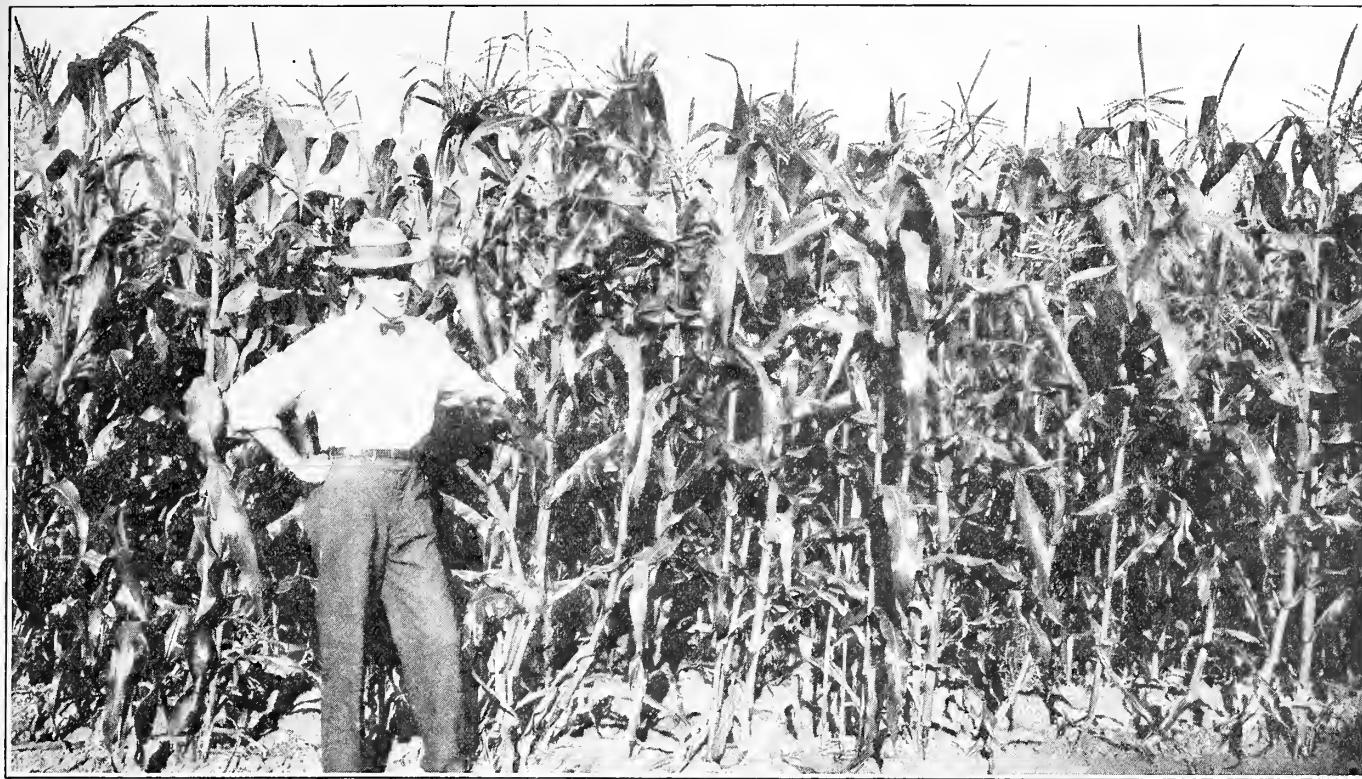
Amber Winter Rye is much hardier than Wheat and Rye. Can be grown on greater variety of soils. It will thrive in dry seasons and on light sandy loam. It is grown for grain, fodder, soilings purposes and green manure. Sow Aug. 20th to Sept. 15th— $1\frac{1}{2}$ bu. per acre if for grain, and $1\frac{1}{2}$ to 2 bu. per acre for Fall pasture.

If drilled 2 to $2\frac{1}{2}$ in. deep there will be less danger of Winter killing. Makes an excellent pasture for pigs, calves and other young stock. It should be sown early in the Fall for this purpose. In the Spring sow about five pounds of Dwarf Essex Rape per acre on the Rye, which may be covered with a harrow without injury to the Rye.

Rye may be pastured very early in the Spring. The Rape will continue the supply of green feed when the Rye disappears. Try a Rye and Rape pasture and thus prove its value. Prices named on request.



A Field of Buckwheat in Bloom. Fine for Bees.



A Typical Field of Minnesota Grown Corn. The U. S. Dept. of Agriculture, Bureau of Crop Estimates, stated Sept. 1st, that the 1916 Corn Crop for Minnesota would be 78,994,000 Bushels.

THE SEED CORN CROP OF 1916.

Those who received and read our catalogues last Spring will remember what was said regarding the conditions which affected the Corn crop of 1915. At the time the Corn pages were written, about the first of November, we predicted that none of the 1915 crop as grown in the Northwest would be fit for seeding purposes. The results confirmed our forecast and frequent tests made by farmers and others, showed the 1915 crop to be not only of very weak vitality, but much of it of very low germination.

It was also stated that we had pursued our usual custom of holding in reserve sufficient seed Corn for two years' planting, so that in the event of a crop failure we would always have our pedigreed stock with which to plant a new crop. Last Spring we planted the usual acreage of this special seed stock, upon which our efforts have been centered for over 20 years.

We consider our strains of seed Corn superior in all respects to all other strains of seed Corn grown on a commercial basis in this part of the country.

Why the Crop was Short.

The Corn crop of 1916 was smaller than it was hoped it would be, not owing to any failure of the seed, but because weather conditions prevented as heavy a yield as there would otherwise have been. In early Spring it looked as though the Corn crop would not mature. Wet, cold weather prevailed and growth was very slow. However, during late June and July a severe heat wave forced the Corn into abnormal growth. There was plenty of moisture in the soil to carry it along to the time of tasseling. Less heat then would have been beneficial to the crop as the hot weather prevented complete pollination; the pollen was burned and the silk seared.

The result was a crop of ears very poorly filled out and with from 25 to 50 per cent less yield than had been anticipated. Because of the fewer kernels to the ear many ears are light weight and there is also a very large proportion of cob to corn. In grading for seed, all of these poor ears must be rejected. This leaves but a small proportion of the total crop which is fit for seed purposes.

Prices may be High.

On the whole we look for higher prices on seed Corn than have prevailed for some years excepting last season. Many who have Corn set aside with which to plant this Spring will find upon test that it is of very weak vitality.

This brings us to the problem, "What is a bushel of seed Corn worth?" This question is answered on page 120. Read it through carefully from beginning to end. You cannot be too particular in the Corn you plant. The very small extra cost per acre may have much to do with your profits.

How We Grow Seed Corn.

The extent of our trade in seed Corn has reached such enormous proportions that it may be of interest to those who purchase from us to know how large quantities of seed are scientifically produced. Our acreage is so large that it would be manifestly impossible for us to own and control all the land necessary. We make contracts with the most reliable farmers, selecting those owning good farms which are properly handled.

The ground must be properly prepared under our direction, then plowed and harrowed as we instruct and the seed which we furnish, planted in the proper manner. We do not grow different varieties of seed Corn closer than a quarter of a mile, so as to avoid all liability of mixing by the wind carrying the pollen from one field to the other. The Corn is frequently cultivated and as soon as the tassels appear we send men into the fields to remove same from all barren stalks. This will produce seed which has a tendency to large yields and the production of ears on every stalk. This work also prevents the condition which is too often seen in a field of Corn, that is a hill with two or three non-productive stalks. A graphic illustration of this point is outlined elsewhere on this page.

When the Corn is properly matured, it is harvested under our direction and placed in wire cribs which are exposed to the air so as to cure thoroughly under normal conditions. Before the arrival of freezing weather the Corn is taken into our warehouse where the curing process is completed. Before we receive the Corn it is sorted twice; once when it is husked and again before it is shipped to us. A third sorting is afterwards made before the Corn is shelled. This insures the very best Corn produced on each field. This selection is so thoroughly done that we save on an average only eight to ten bushels to the acre for seed.

After the Corn is shelled, it is thoroughly recleaned by our machinery. Every lot is then tested for germination and no seed Corn is allowed to leave our hands which does not show a satisfactory test.

The Selection of Seed Corn.

The system of improving seed Corn by first generation hybrids is discussed on page 120. Our limited space will not permit going into all of these matters in detail but we wish to comment on ear to row selection.

In one of our exhaustive tests we devoted about seven acres to Corn, planting a single ear to each row. No less than 225 rows were thus grown and careful observations and records taken. These rows will invariably display certain traits of individuality and frequently there will be considerable contrast with other rows similarly planted. Some rows are fairly uniform in the size and type of ear. Other rows will bear many nubbins and some good ears. Thus there will be a considerable difference in the yield, one row compared with another. These rows all bear marks referring to the parent ear. When the Corn becomes ripe, each row is husked separately and the Corn weighed. From the best rows we are able to save the best Corn for the next breeding plot and in this way select the highest yielding Corn, that which is most true to type and has all of the individual characteristics of the mother ear.

What the Individual Ear Will Produce.

In our trial grounds one season we planted in a plot by itself practically all of the kernels on an individual ear. As soon as earing time came, we went through this plot and counted 246 stalks. Of this number 182 gave promise of producing a normal ear. The balance of 64 stalks bore either nubbins or no ears at all. In other words, this particular ear produced only 75 per cent of stalks which would be considered of any value. Comparing this with some of our high-bred seed Corn which was growing in an adjacent field, we found on counting the stalks that 94 per cent bore fully matured ears and enough bore two ears to the stalk to bring the average up to 100 per cent. It is such Corn that every grower wishes to plant.

It costs as much to plant and cultivate a Corn field with a 50 to 75 per cent yield as it does one which produces 75 to 100 bushels per acre. The cost of the best seed Corn obtainable is only 30c to 40c more per acre than ordinary crib Corn. Why should one hesitate to buy the best?

How Good Corn Increases Land Values.

Twelve years ago we began growing Corn for seed in a new locality about fifty or sixty miles northwest of Minneapolis. At that time the average yield of Corn in that locality under ordinary conditions was about 25 bushels per acre and the best land obtainable could be purchased for about \$60 per acre. Our Corn growing department, with their experts, after instructing the farmers how to take care of their fields and supplying our high grade seed Corn raised the average yield in that locality to 50 to 75 bushels per acre. When farms are sold there now, which is rather infrequently, they bring up to \$125 per acre.

Now what does all this indicate? First, that good seed has much to do with the yield; and second, that by proper care of the land, combined with good seed, larger and better crops can be raised, thus increasing land values.



WHAT IS A BUSHEL OF SEED CORN WORTH?

"The inherited quality of corn to yield heavily or poorly all comes in the ten pounds, more or less, of seed planted."—W. M. Hays.

The Three Ears.

The photograph shown below illustrates what is too often seen in a single hill—a good ear, a poor ear and a nubbin. We have seen this so often that we never stop to think what it means. Why do not all these stalks bear ears like No. 1? Being in the same hill, the condition of soil, climate and moisture must have been exactly the same. One could not have received more thorough cultivation than another; from the time the corn was dropped there was no good reason why Nos. 2 and 3 should not be as good as No. 1. Why, then, is there this wide variation?

Can we do anything to bring Nos. 2 and 3 up to the standard set by No. 1? We can. The difference in yield of these three ears was not due to differences in soil, climate or cultivation. The difference lay behind all this—it lay in the character of the parents planted."—Prof. Holden, in the Farmer's Voice.

The Difference in Seed Corn.

Read This.

Prof. Holden, formerly of the Iowa Agricultural College, one of the highest authorities on improved seed corn in the United States, planted 100 samples taken from the corn planters in the fields of 100 farmers in the vicinity of Ames, Iowa. All were given the same care and cultivation, being planted in trial fields on the College Farm and Sub Stations in various parts of the state. The variation in yield was a surprise to all, as some of the corn produced less than 20 bushels an acre, while other lots yielded almost 100 bushels. This wide difference was all in the seed. The land and method of culture were identical. "The expense of growing an acre was the same. The best seed produced fully four times as much corn, of better quality, than did the other lots of inferior corn."

Why This Great Difference?

The last statement (which is Prof. Holden's, not ours) shows a difference in yield between the poorest and the best, grown side by side under precisely the same conditions, of 80 bushels to the acre, and, making due allowance for difference in varieties, is to be accounted for in no other way than that the best seed possessed inherited tendencies so fostered and fixed by intelligent care that big yields were the perfectly natural result. The poor yields were due to an inherited tendency, furthered by neglect, to produce nubbins and barren stalks.

Seed Corn Improvement.

We call particular attention to the work we have carried on for some years in the line of seed corn improvement; by scientific selection, breeding, cultivation, detasseling, etc.

An old theory revised.—The United States Department of Agriculture in bulletin No. 191, advocates the use of first generation hybrids for the increase of the yield of corn. This theory was first advanced by Prof. W. J. Beal of the Michigan Agricultural Experiment Station as early as 1876, but his work in this direction was not commonly accepted by corn growers until more recently. The plan is as follows:

First Generation Hybrids.

Seed of one variety of seed corn is planted, in alternate rows with seed of the same variety which, however, was grown in an entirely different locality than the first lot. By introducing these two parent varieties belonging to entirely different families, a largely increased yield is the result. Farmers, generally, thoroughly understand the folly of inbreeding their stock. It is reasonable to presume, and has been proved true that the same result will follow from inbreeding corn year after year. By numerous and careful experiments it has been demonstrated that the increase in the yield does not follow in the second, third, or any subsequent generation, that this work of hybridizing must be pursued each year. It is just such work as this that we have and are doing in our fields for the higher development of seed corn. To further reduce the percentage of nubbins and barren stalks, our fields are carefully detasseled.

Cultivation.

In the cultivation of our fields of corn we use surface working Cultivator Sweeps. The advantages of these Sweeps are many. They may be attached to any cultivator. They work entirely on the surface of the soil, producing an ideal earth mulch, leaving a level surface on the field and do not injure the roots of the corn. Soil moisture is conserved and the plants are not retarded but hastened to maturity.

When deep working cultivator implements are used the upper roots are severed, causing a delay in growth until new feeders have formed. It has been proved, beyond a doubt, that our corn crop was saved from loss in some sections because these surface working Sweeps were used, placing it out of danger before frost.

Cost of Seed.

People frequently write us that they would like to buy seed corn from us, but cannot because the prices are too high. The average price of our seed corn is less than \$3.50 per bushel, including bags. The extra work, as described above, is only a small part of the cost of growing our seed corn. But a very small portion of the yield is saved for seed. The crop is carefully hand-picked three times before shelling, and from eight to ten bushels of corn per acre is all that is used for seed. The difference between our cost and the selling price leaves but a small margin of profit. The average planter has neither the facilities nor the knowledge for carrying on this scientific work, and were it not for the fact that we grow thousands of acres, we could not afford to sell seed corn at the prices we ask for it.

Is It Worth It?

A bushel of seed corn will plant from six to eight acres. To use our seed, will cost, say, thirty to forty cents an acre more than if common crib or home grown corn is planted. It is therefore evident that if our seed produces one bushel more to the acre, mind only one bushel more, than the home seed, that the entire cost of the seed and freight is paid for by this extra yield. As was noted by the statement of Professor Holden above, if this extra yield ranges from twenty to eighty bushels per acre, it demonstrates the wisdom of planting the best seed. It is therefore evident that if seed corn were worth \$10.00 a bushel, it would be cheaper to plant such seed than to use common corn as a gift.

Again, Is It Worth It?

The corn we sell is grown from seed which has been brought to such a degree of perfection as to render it of great value. It represents the labor of many years and an expenditure of a very large sum of money. It has behind it the history of big crops. We know that when we plant it, barring flood or drouth, it will yield heavily. Is this care worth thirty cents an acre to anyone planting corn?

Our Corn is Northern Grown.

We regret to say that a great deal of Nebraska, Iowa and even Missouri corn is planted each year for Northern Grown Seed. The term "Northern Grown" is somewhat indefinite, and advantage is taken of this to deceive. With us "Northern Grown" means

That every bushel of our seed corn offered herein, except as otherwise stated, is grown in Minnesota.

While in unusually long seasons the earliest varieties of Nebraska and Iowa grown seed will sometimes mature in the Northwestern States, it is as a rule about thirty days later than Minnesota Grown Seed. We cannot believe that any intelligent farmer in the Northwest will knowingly plant Southern seed when for a few cents an acre more he can secure true and reliable planting stock that will mature. Southern corn is handsomer and larger kerneled than Northern corn. Thousands of bushels of this late corn have been unknowingly seeded by Northwestern farmers. Those who want early maturing corn should buy nothing but true Northern Grown Seed and absolutely know that they are getting it.

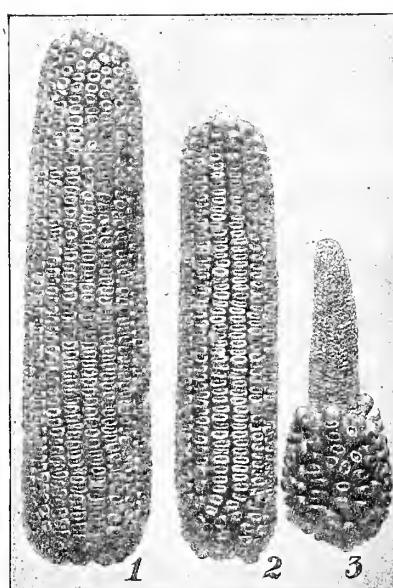
Prices.

Values on seed corn are those in effect as we go to press, and are subject to changes in price. Our Red Figure Price List enclosed gives prices on the day the catalogue is mailed.

Germination.

We thoroughly and carefully test every lot of corn before it is sent out to our customers. The average test of the corn which we shipped last season was very satisfactory. We mark the germination on every bag before it is shipped. Many careful tests are made on each lot, in several styles of germinators. Many of these are nearly or quite 100 per cent, with strong, healthy sprouts.

Our improved methods of gathering, curing and storing insure maximum results, but wherever you may buy your seed corn you should know for yourself that it grows before you plant it, and for your own satisfaction suggest that you test your seed.



The Product of a Single Hill.

EXTRA EARLY YELLOW DENT SEED CORN FOR NORTHERN PLANTING.

Plant 6 to 8 lbs. per acre.

Minnesota Early Yellow Dent.

An early and hardy full dent Corn. The kernel is not so deep and the cob is larger than our Dakota Yellow Dent or Pride of the North, but it can unquestionably be safely grown a little farther North than either of these varieties. This Corn will stand as many hard knocks as any other full Yellow Dent. We are now offering a limited quantity of our own, Minnesota grown, Early Yellow Dent Corn, grown from our own seed stock, carefully selected and tested. This Corn has been shelled and graded and shows high germination. In view of the great demand for good Seed Corn this season, we suggest that you order immediately upon receipt of this catalogue, to avoid disappointment. For prices see our Red Figure Price List enclosed in this book.

Longfellow Yellow Dent Corn.

See Illustration on the Right.

A handsome, productive, long eared variety that has been raised in Minnesota for years by farmers who appreciate its splendid qualities. They grow it every year regardless of flattering reports about taller, late varieties that grow big stalks but no larger ears.

The ears of Longfellow Yellow Dent are almost as long as those of the standard flint sort bearing the same name. The kernels are set very closely on the cob and are quite deep for a strictly Northern variety. Another advantage is that these long 10 to 16 rowed ears will cure more readily than a variety with shorter ears having 16 to 24 rows of kernels. The shape of Longfellow Yellow Dent is very desirable for feeding stock, especially calves and yearlings as they can handle these better than the short, heavier ears of some other sorts.

Also, stockmen who have been growing the 8 row flint Corn to feed from the bundle will welcome the Longfellow Yellow Dent because of its heavy yields and absence of suckers while growing. It has the desirable qualities of the flint Corns in shape and size of ear and in addition the splendid feeding value of a first class yellow dent Corn. It is a pleasure to husk the long ears of Longfellow Yellow Dent—the nubbins are few and the ears are easily separated from the stalk.

Longfellow Yellow Dent is worthy of a trial on every farm in the Northwest where an early, dependable Corn is in demand for feeding purposes. It is also desirable for stockmen in the North who want grain as well as fodder in their silos. Plant $\frac{1}{2}$ bushel of seed per acre in drill rows for ensilage.

This Corn we offered for the first time last year. The letters of praise and the flattering statements made to us by those who bought from us last Spring justify us in placing this variety permanently on our list. A North Dakota farmer recently visited us and said he preferred Longfellow Yellow Dent to any other variety for growing in his section. In addition, the yield was greater than other sorts returned to him.

For prices see the Red Figure Price List enclosed in this catalogue.

Northrup, King & Co.'s Dakota Dent

Earliest Full Yellow Dent. 16 to 20 rows; recommended for planting south of the 46th parallel of latitude. Thousands of bushels sold since introduced. It grows 7 to 8 feet in height; cob small, well filled out to the end with long, deep grains. It is a very heavy yielder. A fine sort for southern Minnesota, South Dakota and Wisconsin. Average height stalk, 8 ft. 1 in., average distance base of ear from ground, 3 ft. 2 in. At the time this page was prepared for the press it was too early to make prices, but same are quoted on the Red Figure Price List enclosed in this book, or mailed to any address on request.

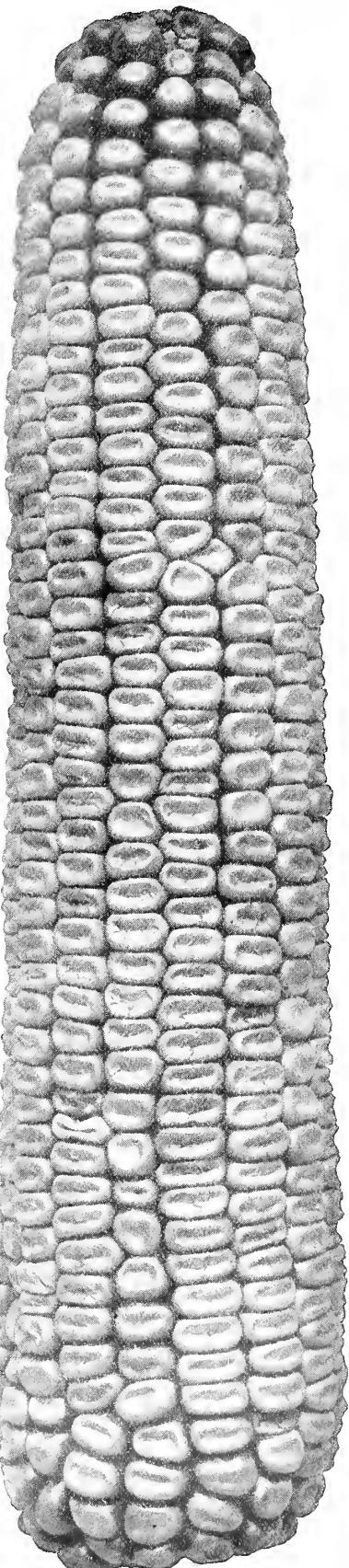
Pride of the North

A Dependable Early Yellow Dent Corn. In some sections of the Northwest it equals other varieties in yield and quality. The stalks are well proportioned, being short jointed and leafy. Two or more well developed ears are frequently found on a single stalk. The kernels are very deep and closely set on the ear. Pride of the North shells more Corn in proportion to cob than most other varieties grown in the West. It is especially valuable to stockmen, to feed in the bundle thus saving the expense of husking. Average height of stalk 8 feet, average distance base of ear from ground, 3 feet. Prices on Seed Corn are given on our Red Figure Price List which is issued frequently during the season.

Northrup, King & Co.'s Minnesota King Corn

Our Own Minnesota Grown Seed. (Yellow Half Dent). We regard this Corn (introduced by us in 1889) in some respects, as one of the most valuable early varieties. There are varieties that under favorable circumstances will yield as much, but year in and year out, through fat years and lean years, there are, we believe, few that will do so well. It seems to possess a faculty of growing right along and making a crop during weather and under conditions that would ruin some varieties. We do not know of any good reason why this should be so, unless it be that it roots more deeply; not only is this our own experience, but we have received like testimony from hundreds to whom we have sold it, the general expression being that for ability to endure extremes of heat and cold, flood and drought it is unexcelled. In appearance the Minnesota King is remarkably distinct, being a half Yellow Dent; the kernels are very broad and of an extremely rich, golden color. Average height of stalk, 7 ft; average distance base of ears from ground, 3 feet. The ear is of good size, eight rowed, cob small. Prices on Seed Corn are given on our Red Figure Price List which is issued frequently during the season.

Northrup, King & Co.'s Dakota Dent Corn.



Longfellow Yellow Dent Corn.



Northrup, King & Co.'s

STERLING WHITE DENT CORN

A Corn With a Record.

Pedigreed Seed Corn, like pedigree stock, must have a record, and our Sterling White Dent Corn has a proud one. The ability of Northrup, King & Co.'s Sterling White Dent Corn to mature early and produce large crops is due entirely to its breeding and selection—work which we have conducted for many years. It is the largest eared, extra early Corn grown in the Northwest, the ears averaging at husking time nearly, if not quite, one pound. The stalk attains under normal conditions a height of eight feet; the ears are about 3 ft. 8 in. from the ground, rendering it easily handled with a Corn harvester; the foliage is large, healthy and makes unusually fine fodder and is one of the very best varieties for that purpose. It has given the greatest average yield of any early Corn we have ever grown. In field tests with other leading varieties planted under precisely the same conditions, and given the same treatment, it has averaged a very much greater crop than any of the other varieties. The constitution of the Corn is such as to resist extremes of weather to the last degree, and we offer it with the conviction that it will prove a sensation to all those who want an extra early white Corn.

We consider that our Sterling White Dent Corn has the widest range of usefulness and adaptability to soil and climate of any of the full dent Corns. Some of the flint sorts are earlier and thus safer for extreme conditions. There are also later and larger eared sorts, which under normal conditions would perhaps more satisfactorily meet the ideas of the Corn growers of Illinois, Indiana, Kansas, etc., who are accustomed to the extremely large eared and deep kerneled sorts of the South, but for the Corn lands between the 42nd and 46th parallels of latitude, allowing for reasonable variations in time of seeding and character of soil, we know of no Corn to be compared with it as a large and reliable cropper. Where weather conditions are such as to compel late planting or replanting, or where for any cause an early variety is wanted, no sort can excel our Sterling White Dent. An extra early Corn that will and has yielded under good tillage in Minnesota over 100 bushels to the acre is not to be decried by Corn growers anywhere and will be appreciated by the farmers of the Northwest. Owing to the unusual conditions affecting the seed Corn crop which are explained on page 119, it is impossible to quote prices at the time this catalogue is printed. However this variety will be offered on our Red Figure Price List which will be enclosed in the catalogue at time of mailing.

Minnesota Early White Dent Corn.

This is a choice White Dent Corn distinct from the Rustler or Sterling White Dent varieties but similar to the Rustler White Dent in type. It produces large, heavy ears on stalks which average eight feet in height. The average distance of ear from the ground is 3 to 3½ feet. This Corn is of our own growing and was raised in Minnesota where it has matured satisfactorily for many years.

In general there is not the demand for White Corn that there is for yellow. This is largely a matter of prejudice as they are practically the same in feeding value. We urge the general growing of this splendid Corn. It is a first-class variety for general farm use—as a grain feed, for ensilage or forage. For prices see our Red Figure Price List enclosed in this book.

Minnesota No. 23 Corn.

This variety has been grown in the Northwest for a number of years. It is a white eared yellow dent Corn that has been developed at the University Farm in St. Anthony Park and is strongly recommended by them.

We quote from Farmers' Institute Annual No. 23 as follows:

"The Northeastern Experimental Farm, in co-operation with Prof. C. P. Bull has conducted experimental work with different varieties of Corn with a view of determining their adaptability and yield.

Minnesota No. 23 has given the most satisfactory results, and has been selected as a standard variety for northeastern Minnesota. During the season of 1910 Minnesota No. 23 yielded at the rate of 36 bushels shelled Corn per acre under field conditions. Of this 80 per cent was quite well matured. It was planted May 25th and stricken with frost September 8th, giving it only 96 days growth."

The Northeastern Experimental Farm is located at Grand Rapids, Minn. which is farther north than Duluth. Minnesota No. 23 Corn produces a fine appearing ear, medium to short in length and very uniform as to size. Stalks grow about six feet high and the ear is borne from 2 to 2½ feet above the ground. It may be easily harvested with a Corn binder.

If Dwarf Essex Rape is sown in at the last cultivation of Minnesota No. 23 Corn the result will be a splendid pasture for hogs or cattle. See note above regarding prices under Sterling White Dent Corn.

White Cap Yellow Dent.

We have grown this Corn for several years, and although it is very early and a great yielder, we have not liked it so well as some other sorts on account of the color of the grain, the cap of the Corn being white and the balance a pale yellow. The increased demand for it, however, and the reports we receive about it, many of which are really astonishing, compel us to recognize the fact that the prejudice we have had against this Corn on account of its color, was prejudice pure and simple, and that White Cap Yellow Dent Corn has come to stay and ought to stay. Our stock of this Corn is invariably exhausted very early in the season, thus proving its growing popularity each year. See page 120 regarding 1917 prices.

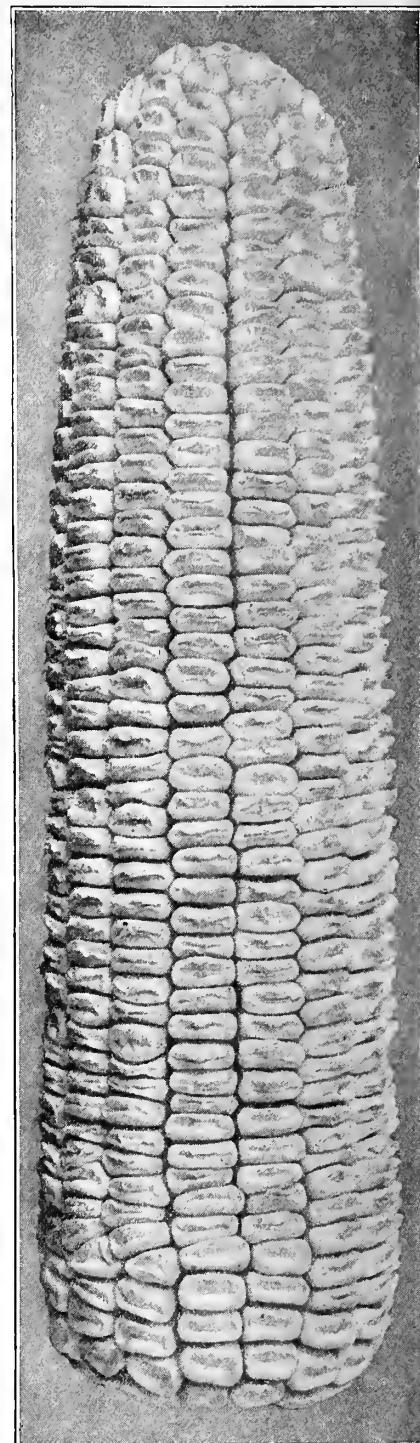
North Dakota Golden Dent Corn.

This variety is all the name suggests, an extra early, beautiful yellow dent Corn. The stalk is rather dwarf in its growth; the ears are fair size and well placed, sufficiently high above the ground to admit the use of a Corn binder in harvesting the crop. Golden Dent is in demand with feeders who want something to be used as a starter for stock to be fed in the pastures during the Fall. This variety will make good ears when closely planted in drills. We advise the use of 6 to 8 qts. of seed an acre when drilled. Conditions same as noted under Sterling White Dent Corn above.

Seed Corn With A Pedigree.

For more than twenty years Seed Corn has been one of our specialties and we have been working constantly to improve our strains of the leading varieties. When you purchase Seed Corn from us you are assured that it is all we claim for it—selected stock from heavy yielding types that have been bred up for generations.

Much of the Seed Corn now being offered by farmers and small growers throughout the Northwest has been grown in this region only one year. This is the natural result of the 1915 Corn crop failure. For the 1916 crop it was necessary for most growers to use 1914 seed, much of which was nondescript in character. Read about the 1916 crop on page 119. That explains why we are still able to supply Seed Corn with a pedigree to our customers.



Northrup, King & Co.'s Sterling White Dent Corn.
(Reduced in size.)

Greatest Corn for this State.

For fourteen years I have used your field seeds—wheat, barley and seed corn. Your Sterling White Dent Corn I regard as the greatest corn for this state. The high germination of your seeds strikes me as remarkable.

HANS GEO. ANDERSON,
Nicollet Co., Minn.

The Most Satisfactory.

I think I have been using your seeds since you started in business. Your Sterling White Dent Corn has proved the most satisfactory.

A. W. HALES, Clark Co., Wis.

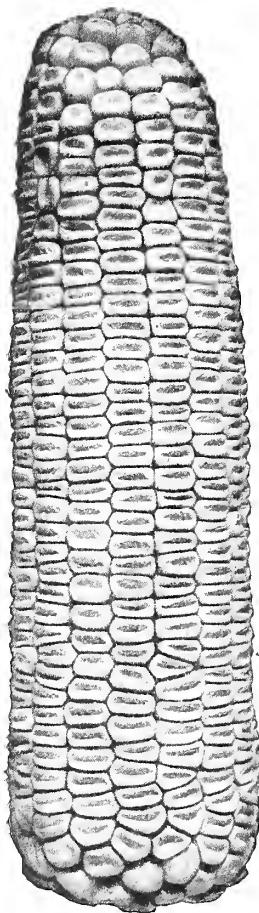
Always Satisfactory.

The seeds which I have bought of you during the past 20 years have always proved satisfactory. Your seed Corn can be well recommended for the North.

HENRY E. VOIGT,

Hamburg, Wis.

Write for Special Prices on Seed Corn in large quantities.



White Cap Yellow Dent Corn.

Booklet on Field Corn. We have condensed much valuable information in this booklet on varieties best adapted for the Northwest, preparation of the land, seeding, cultivation, harvesting, and storing. It will be sent free to any address on request.

Rustler White Dent Corn

This early White Dent (14 to 18 rows) was obtained from a few kernels sent us in the Autumn of 1884 by a Dakota farmer, who stated that he had matured it in that state for seven successive years; that it was the only Corn in his section that could show such a record. For early ripening, great yield and compact growth of ears it is one of the best; admirably adapted to a northern climate. Average height of stalk, 8 feet; average distance base of ear from ground, 3 ft. 6 in. Those wishing a first-class White Dent Corn will find in the Rustler a hard Corn to match.

At the time this catalogue goes to press it is impossible to fix prices on seed Corn. The review of the 1916 crop season on page 119 explains the situation. It is probable that good seed stock will be scarce this Spring so we suggest that you make sure of your seed by ordering upon receipt of this catalogue. The prices of Rustler White Dent and other varieties will be found on the Red Figure Price List enclosed herewith.

Minnesota Ideal

One of the Largest Long-eared Varieties Grown in Minnesota.

Those who have grown this variety extensively claim that it will out-yield Minnesota No. 13 ten to fifteen bushels to the acre when raised under the same conditions of soil and cultivation.

It is a yellow dent Corn of fine appearance. It has been grown for a number of years in the southern part of Minnesota and has gradually been worked north and is now safe for planting in the latitude of Minneapolis.

The stalks are stiff and strong, about 8 ft. high, and will stand well in windstorms. The ear grows from 3 to 3½ ft. above the ground. This Corn will produce uniform ears on nearly every stalk. There will be very few nubbins. This seems to be a peculiarity of this variety. See note under Rustler White Dent Corn.

Minnesota Ideal Yields 83 Bushels Per Acre.

(From the St. Paul Daily Reporter.)

The value of fertilizer in improving the crop is shown in a report which has been compiled by Swift & Co., who maintained an exhibit of a field of Corn at the Minnesota State Fair grounds in 1914. The Corn plot which contained 1 8-10 acres produced 83 bushels of Corn per acre, and the Corn was of excellent quality, large and uniform in size. The 1913 average yield of Corn for Minnesota was only 40 bushels per acre.

Swift's "Grain Grower" fertilizer was applied on their demonstration plot—400 lbs. per acre at a cost of \$6.00. The seed Corn used was furnished by Northrup, King & Co., Minneapolis, and is known as "Minnesota Ideal." The corn was planted May 17, a day following the application of the fertilizer which was sown broadcast. The field was harrowed thoroughly immediately after planting and cultivated four times during the growing season.

Gold Medal Corn

An Extra Early Full Yellow Dent Corn.

A 14 to 18 rowed variety with ears averaging eight to nine inches long. The type is well fixed, the ears resembling almost every other ear, and on account of the high degree to which it is bred, it produces almost no nubbins or small ears. The history of this Corn affords a striking example of what may be accomplished by intelligent and unremitting effort in a fixed direction. For twenty five years this Corn has been grown in this county, (Hennepin Co., Minnesota). During the earlier years of its growth here the ears were small and without uniformity, but by careful breeding and selection it is improved until now we have one of the earliest and most productive yellow dent varieties, with ears of good size and the best quality. The kernels are not so deep as our Dakota Dent or Pride of the North, but are smoother and of more handsome appearance. On good soil and fair cultivation this variety has yielded about sixty bushels to the acre, sometimes more but seldom less. As it matures in about ninety days, it is ripe usually before frost. This variety will be offered on our Red Figure Price List which will be sent out with this catalogue.

POP CORN

Big Money in Little Things.

Very often there is good money in "little things" which, because they are small, people are likely to overlook. Popcorn is one of these.

ITS PROFITABLE USES.

1st. It yields of shocked Corn of the very best feeding value at the rate of 8 to 10 tons an acre.

2nd. The small ears which mature early, are very valuable for pigs, calves and young stock generally, especially during the Fall and Winter months.

3rd. The yield of ear Corn to the acre is quite equal to any of the larger and later varieties, as it can be planted much more closely than the larger varieties of Corn.

4th. Thousands of carloads of Popcorn are annually sold for popping purposes, the consumption having greatly increased since the advent of "Cracker-jack" and other like preparations.

5th. Popcorn brings a very much higher price either shelled or on the ear than any other Corn and usually a ready market is easily found for any quantity, while in event of an inactive market, it can always be fed, and a farmer cannot raise better feed.

6th. Boys and girls can grow an acre or two of Popcorn and dispose of the product to their neighbors or to the merchant. There is usually a demand for this article and in this way considerable money can easily be earned. Why not plow up an acre or two and turn it over to the children. It will afford them pleasure and profit.

Plant at the rate of 6 to 8 quarts to the acre and closely. We have a very choice lot of this Popcorn carefully chosen and tested for seed purposes. Price, large pkt., 10c; lb., 25c, postpaid.

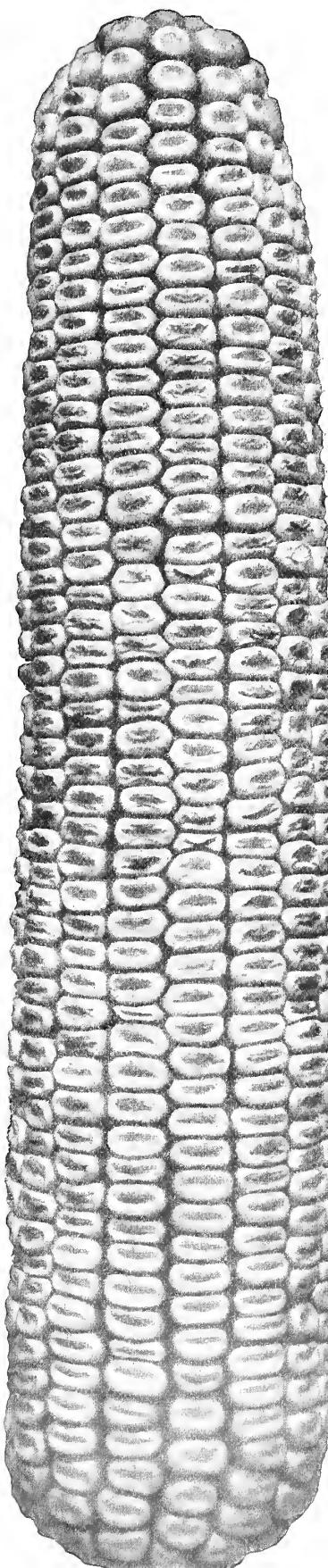
For larger quantities by express or freight see the Red Figure Price List which is enclosed in this book or write for special quotation when ready to purchase.

Minnesota Ideal Corn.

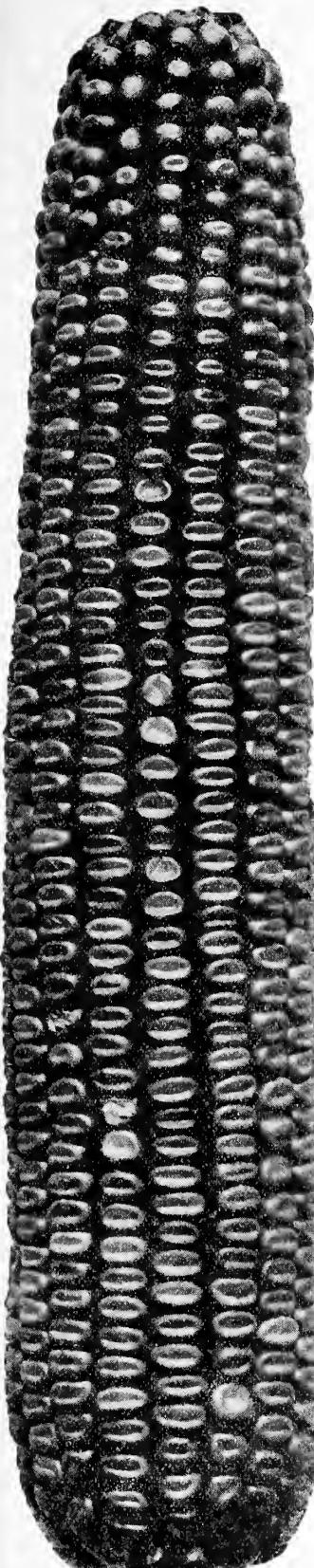
Reduced in Size.

Write for special prices on
Seed Corn in large
quantities.

Red Figure Price Lists are issued at frequent intervals throughout the Spring. A copy will be mailed promptly at any time upon request.



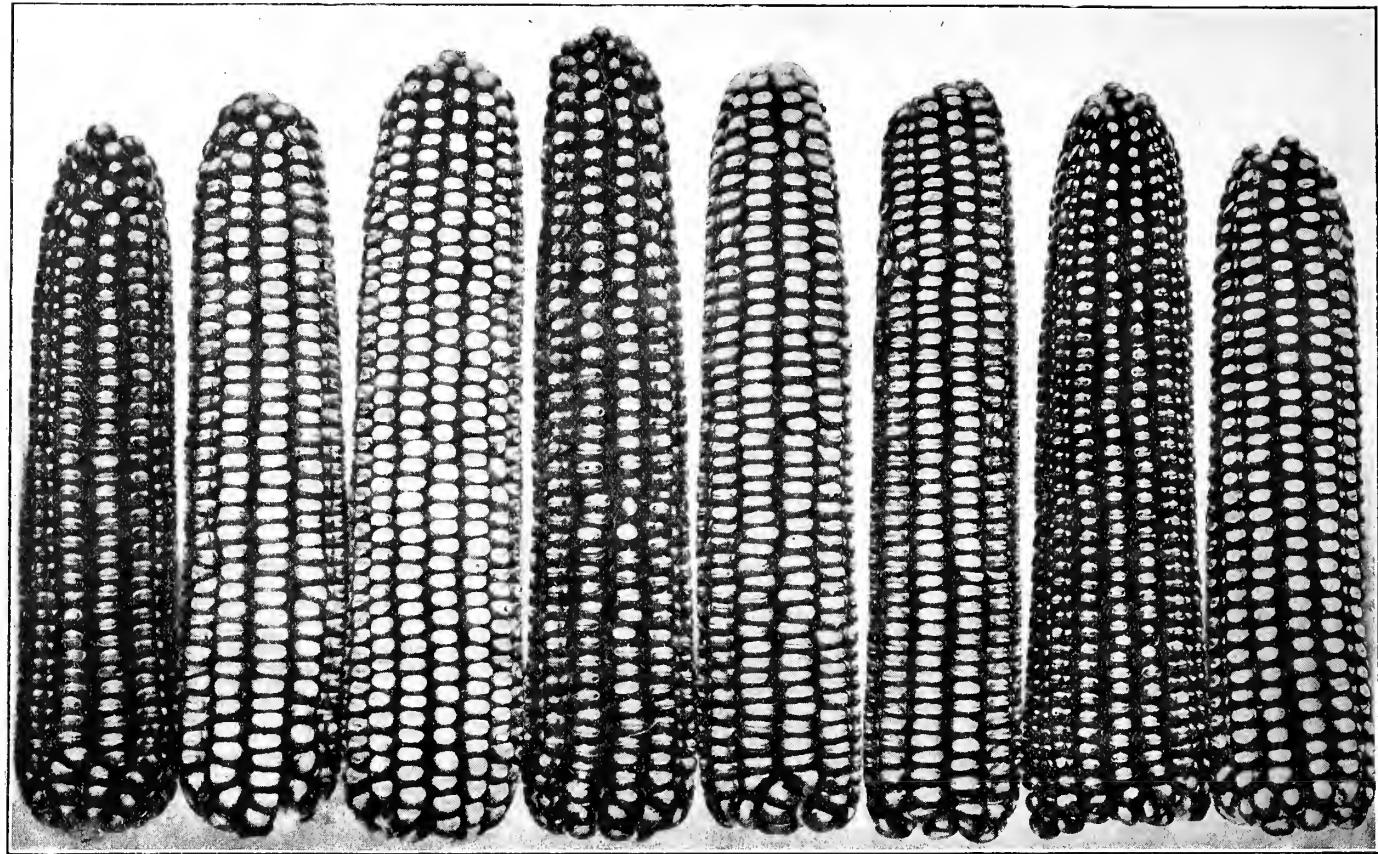
Rustler White Dent Corn.



Minnesota Ideal Corn.

Reduced in Size.

Write for special prices on
Seed Corn in large
quantities.



Typical Ears of Northwestern Dent Corn, The Earliest Dent Corn Grown.

EARLY NORTHWESTERN OR SMOKY DENT CORN

The Earliest Dent Corn for the Northwest.

This Corn is in a class by itself having red kernels with a yellowish cap, being a cross between a red flint and a yellow dent, but the type has become well established. To some the color is objectionable, but it must be taken into consideration that in most parts of North Dakota, Northern Minnesota, Northern Wisconsin and even Canada this is the only variety upon which the grower may depend to ripen and it is far better to have Corn, even though it is red in color, than to have no Corn at all. In North Dakota, northern Minnesota and in high altitudes this variety can be relied upon to mature before any other dent Corn, and, in fact, is the only sort to ripen in some seasons. No other one variety is as extensively grown in North Dakota as our Early Northwestern Dent, for the reason that season after season it successfully yields a good crop. When we offer seed it is Minnesota grown, every bushel being produced north of Minneapolis, under our personal supervision and from own selected seed stock. It is especially adapted for planting in the far north and our sales of this variety in the northern sections of North Dakota, Minnesota, Wisconsin, Montana and even Canada reach enormous proportions. Not only is it grown in the localities named but for late planting or replants it is especially desirable. It is extremely early and quickly adapts itself to new soil and climatic conditions. We have harvested 75 bushels to the acre and gathered seed from the crop in as many days, a strong tribute to its earliness and productiveness. As a rule, under ordinary Corn growing conditions, Northwestern Dent will mature in 85 to 90 days, and under more favorable soil, cultivation and weather will mature even earlier. The ears are of good size, from seven to ten inches long, and bear 10 to 14 rows of Corn. Under ordinary conditions the average height of stalks is 7 ft., 8 in.; average distance base of ear from ground, 3 ft., 5 in., thus admitting the use of a Corn harvester. Early Northwestern Dent may be sown in check rows or in drills. The latter method is in favor in many localities. The stalks, being smaller and shorter than some of the later sorts, may stand close in the row, thus contributing to a heavy yield. Notwithstanding the small ear, yields of seventy to eighty bushels per acre are not uncommon.

This sort is also much grown for fodder and silo purposes on account of its earliness and adaptability. It will, of course, give best yields on a fairly rich soil.

Everyone remembers about the seed Corn crop failure of 1915. That season we were unable to harvest a single bushel of any variety of Corn fit for seed purposes. It would have resulted in the loss of our planting stock if we had not held in reserve sufficient seed Corn for two years' planting.

This reserved portion of our regular pedigree seed stock was used for planting our acreage of Early Northwestern Dent and other varieties last Spring. The result is that this season we can again offer Early Northwestern Dent Corn of our superior proven strain. For prices see Red Figure Price List enclosed herewith.

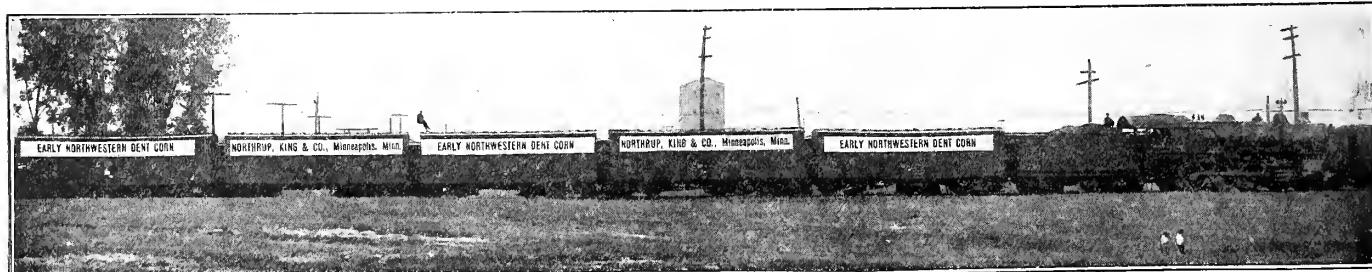
Our Red Figure Price Lists are issued at intervals throughout the season, as changes in price demand. They contain current prices on all grass and field seeds and poultry supplies. We will gladly mail a copy at any time free, upon request.

Wins The Silver Cup.

While on a trip east, I bought some Early Northwestern Dent Corn from you last Fall, and I know you will be interested in knowing that Corn grown from that seed was the winner of the first and second prizes for twenty-five ears, in Wibaux County this Fall where there were about forty different kinds of Corn. I won the silver cup with the best bushel and second prize on twenty-five ears. Thanking you for the courteous way you have treated me and the good quality of seed you sent me.

M. J. RYAN, Wibaux Co., Mont.

See page 132 for Dwarf Essex Rape, the best supplemental hog feed to plant with Corn. See pages 154 and 155 for Corn and other crop fertilizers.



Part of a Train Load of Northwestern Dent Corn Grown under our Personal Supervision.



Minnesota State Experiment Station, the Birthplace of Minnesota No. 13 Corn.

MINNESOTA NO. 13 CORN (UNIVERSITY)

Extra Early Yellow Dent. (Corresponds to Wisconsin No. 8.)

The commanding points of excellence which place Minnesota No. 13 Corn at the head of all yellow dent varieties for Northern planting are:

Its earliness,

Its enormous productiveness,

Its adaptability to a great variety of soils and climates.

To Prof. W. M. Hays, formerly agriculturist at the Minnesota State Experiment Station, recently Assistant Secretary of Agriculture, Washington, D. C., is due the honor of having originated this valuable extra early yellow dent Corn. Not only is it fully as early as any of the yellow dent Corns, but its record of heavy yields is such as to mark it as distinctly and undoubtedly the most profitable of all the yellow dent varieties. It was the remarkable productiveness of the Minnesota No. 13 Corn that led Prof. Hays to say: "The inherited quality of Corn to yield heavily or poorly, all comes in the ten pounds, more or less, of seed planted to the acre," and never was the truth of this statement better exemplified than in Minnesota No. 13. Much time and labor was expended by Prof. Hays and his staff of assistants in breeding and perfecting this strain. It was first disseminated as Minnesota No. 13 Corn, the intention being to later give it an appropriate name, but it has since become so widely and favorably known as Minnesota No. 13 that it must continue to be so known. The Directors of the Minnesota Experiment Station consider it the best yellow dent Corn for Minnesota, North and South Dakota, and Wisconsin; other stations agree in this opinion. Mr. John S. Cole, Assistant Agriculturist at the Brookings, South Dakota, Experiment Station, says:—"At the county fair held here last week Mr. Geo. N. Kennard exhibited one bushel of Minnesota No. 13 Corn that I consider was the finest sample of yellow dent Corn that has ever been displayed here. Mr. Kennard's Corn was raised on clover sod and is estimated to yield from sixty to eighty bushels an acre."

The ears are of handsome appearance bearing 16 to 20 rows of bright, rich yellow, smooth, wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length and are borne usually two on a stalk. No Corn excels in quality the Minnesota No. 13; the cobs are well filled and the individual kernels, plump and of good color.

Minnesota No. 13 thoroughly matures in ninety days when planted on favorable soil and in a good location, but ninety-five to one hundred days places it out of danger under average conditions. A variety of Corn which will show such valuable characteristics is an acquisition on any farm, especially for planting in the Northwest where early frosts are common. It may be planted as late as the second week in June and yet safely mature a crop.

Another point to which particular attention should be directed is its adaptability to changes in soil and climate. Many varieties fail to do well when subjected to new conditions or require several years to become acclimatized. Minnesota No. 13 Corn, however, will thrive and produce abundantly on almost any soil and will do remarkably well under adverse conditions when other varieties would fail entirely.

The stalks grow to a height of seven feet and being leafy make excellent and very nutritious fodder.

We consider this a most valuable Corn to grow, as do also the various Experiment Stations we have mentioned. We refer also to those who have purchased their Corn of us in the past.

Our strain of Minnesota No. 13 Corn is especially desirable because of the care and attention which it has received. It has been carefully bred for trueness to type and heavy yield. Plant 6 to 8 lbs. per acre.

See page 119 for a full account of seed Corn conditions this season.

It is impossible at the time this catalogue goes to press to quote prices on seed Corn. All varieties will be offered on the Red Figure Price List enclosed in this book at time of mailing.

All prices are subject to change on field seeds, grass seeds, Corn, etc. Red Figure Price Lists are issued frequently during the selling season naming latest values.

OPINIONS OF CORN GROWERS—READ THEM.

Grew 100 Per Cent.

I bought some of your Minnesota No. 13 Seed Corn and found upon testing it that it grew 100%. That is good enough for me.

H. KETCHAM, Ramsey County, Minn.

The Best Corn in Wright County.

I am sending you a sample of what is said to be the best field of Corn ever grown in Wright County. It is Minnesota No. 13 and the seed came from you.

JOHN DEWEY, Wright County, Minn.

My Corn did not Grow but my Neighbor's Did.

I purchased some Minnesota No. 13 Corn from a seed house in South Dakota last year and it did not grow, but my neighbor bought some Minnesota No. 13 Corn from you and it was fine.

WM. SINNDOWN, Brookings Co., S. D.

Last Planted and First to Ripen.

I have four acres of fine matured Minnesota No. 13 Corn. It was cut and shocked by Sept. 6th. It was surely a grand Corn. I planted it the last, and it was the first to ripen.

JOHN LEVERTON, Sherburne Co., Minn.

I Thought You Were High in Price.

I grew fine Corn on breaking from Minnesota No. 13 and Sterling White Dent, with drought and early frost against it. I thought last Spring you were very high in price, but I would rather pay a big price for good seed and raise grain than have poor seed as a gift and raise nothing.

RUPERT D. POTTER, Bowman Co., N. D.

Ready to Cut in Less Than Ninety Days.

I bought some seed Corn from you last spring—Minnesota No. 13—and it is splendid, being ready to cut in less than ninety days after seeding.

FINLEY LYON, Linn Co., Iowa

Can Recommend Your Seeds to All.

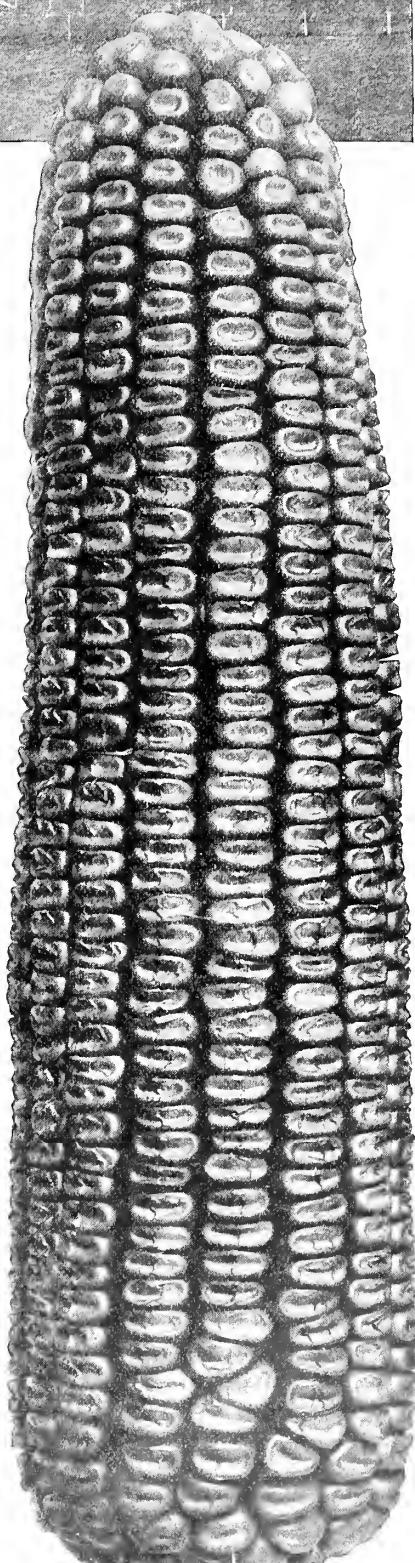
Your seeds have given the best of satisfaction. Have bought of your firm for twenty years. If you had not been reliable I would not have patronized you so long. We were especially pleased with the Minnesota No. 13 and Minnesota King Corn, and can recommend your seeds to all.

D. M. NYE, Winona Co., Minn.

We like your seeds better than any other we have tried. Minnesota No. 13 Yellow Dent Corn is one week earlier than any other variety and the ears are about nine inches long.

OLE TORGERSON, Yellow Medicine Co., Minn.

Write for Special Prices on Seed Corn in Large Quantities.



An Average Ear of Minnesota No. 13 Yellow Dent Corn.

EXTRA EARLY FLINT SEED CORN

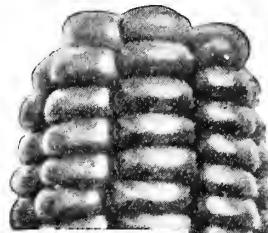
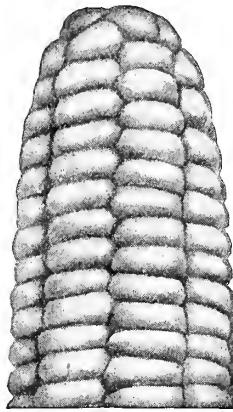
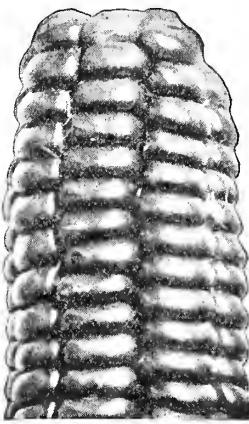
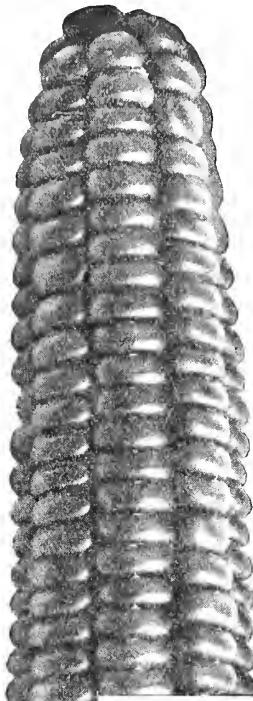
These are the earliest varieties grown and are especially adapted to Northern conditions. They make a rapid growth, mature quickly and under favorable conditions yield immensely. All are perfectly acclimated to our Northern conditions, which mean cool nights and short Summers. The "Squaw" types of the flint corns are extremely early, but the ears grow so close to the ground that they cannot be harvested with a corn harvester, hence are most valuable to "hog off" by turning stock into the fields and thus allow them to harvest the crop. The Mercer, Triumph, Longfellow, King Philip, and Smut Nose are also much used for replants where the first plantings fail, also for late fodder on early summer fallows—native sod, and the new comer on the frontier can grow fodder from late plantings cheaper than he can make hay, thus providing a grain ration for the stock. Plant 6 to 8 pounds per acre.

Hogging Down Corn. The practice of hogging down corn is strongly recommended by the Iowa and several other state experiment stations. These four varieties of flint corn listed below are especially suited for the purpose. At the North Dakota Station in the Autumn of 1914, a poor crop of the Dent type, from $2\frac{1}{2}$ acres, was pastured by 16 pigs which made a gain of 818 pounds, or \$51.00 in value—after subtracting the cost of some additional concentrates which were fed.

This gives a value of \$20.40 an acre for this poor corn without the expense of harvesting it.

Green pasture is also very desirable to use with the corn for the best results. See page 132 regarding the use of Rape.

The advantages of hogging down corn are that it saves the labor of husking, cribbing, reloading and feeding; storage is saved as no crib space is needed; the crop is harvested without waste, it gives the most pork for the least expense.



Squaw. Extremely early and of very dwarf habit. We still grow this corn for those who want it, but we urge the planting of North Dakota White Flint, or North Dakota Yellow Flint, in its place, as both of these varieties are fully as early, more productive, and make a much more vigorous growth. Average length of ears $7\frac{1}{2}$ inches. Conditions on seed corn are so unsettled that it is impossible to quote prices at the time this page goes to press. Read pages 119 and 120 if you are interested in the conditions which effect seed corn this season.

See Red Figure Price List enclosed in this catalogue for prices on all varieties of seed corn.

Improved King Philip. (Extra Early Red Flint.) An old-time New England favorite perfected by us. Extremely hardy. One of the best and most reliable early sorts. Ears 10 in. long; very early. See note above, under Squaw corn and page 119, regarding 1916 seed corn crop.

Prices on Seed Corn.

See the Red Figure Price List enclosed in this catalogue for prices on all varieties of seed corn that are available this season.

North Dakota White Flint. Resulting from a careful selection of Squaw corn for many years. Very much better than the Squaw. Average height stalk 5 ft., average distance base of ear from ground $1\frac{1}{2}$ ft. Average length of ear 8 inches. See note regarding crop, under Squaw corn.

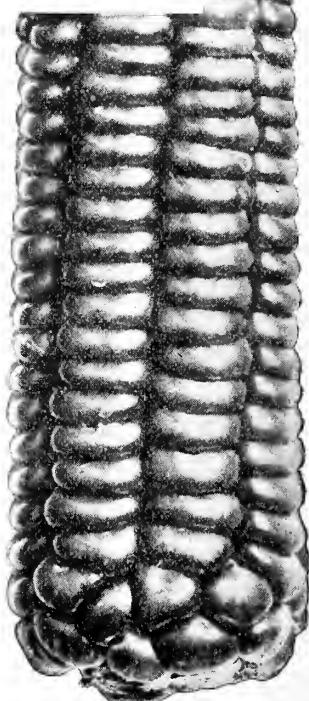
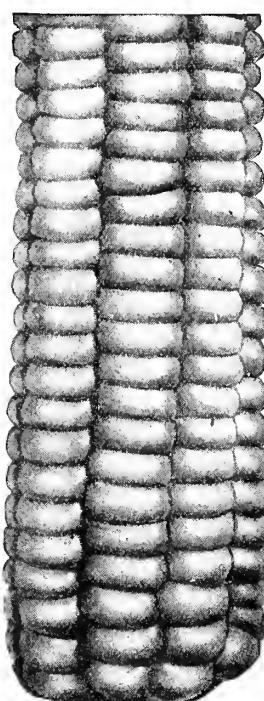
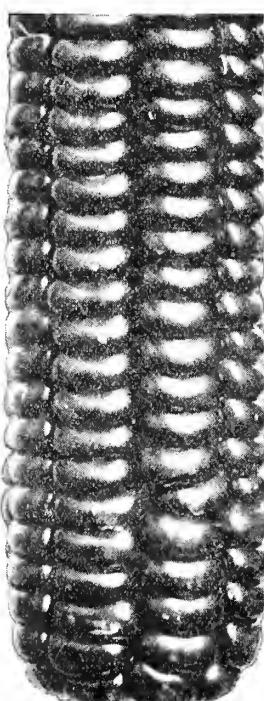
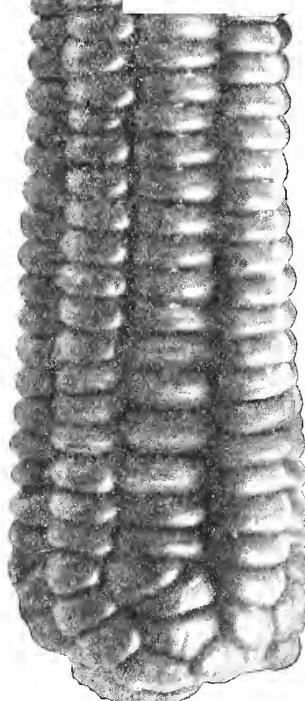
North Dakota Yellow Flint. (Gehu)

Resembles White Flint in earliness, habit of growth, etc., but the grain is yellow. Under normal conditions this variety will mature in 70 to 75 days. In localities where seasons are short and nights are cool it may be depended upon to give a crop. The yield must, of course, vary with conditions of soil, cultivation and season, but it has been no uncommon occurrence to secure a yield up to 75 bushels per acre. Gives an abundance of fodder of splendid quality. Average height stalk 5 ft., average distance base of ear from ground, $1\frac{1}{2}$ ft. Average length of ear 8 inches. Conditions same as noted for other varieties above.

Is All Right.

Your seeds have given me good satisfaction, and your North Dakota Yellow Flint corn is all right.

CARL G. CLEMENTS, Chippewa Co., Wis.

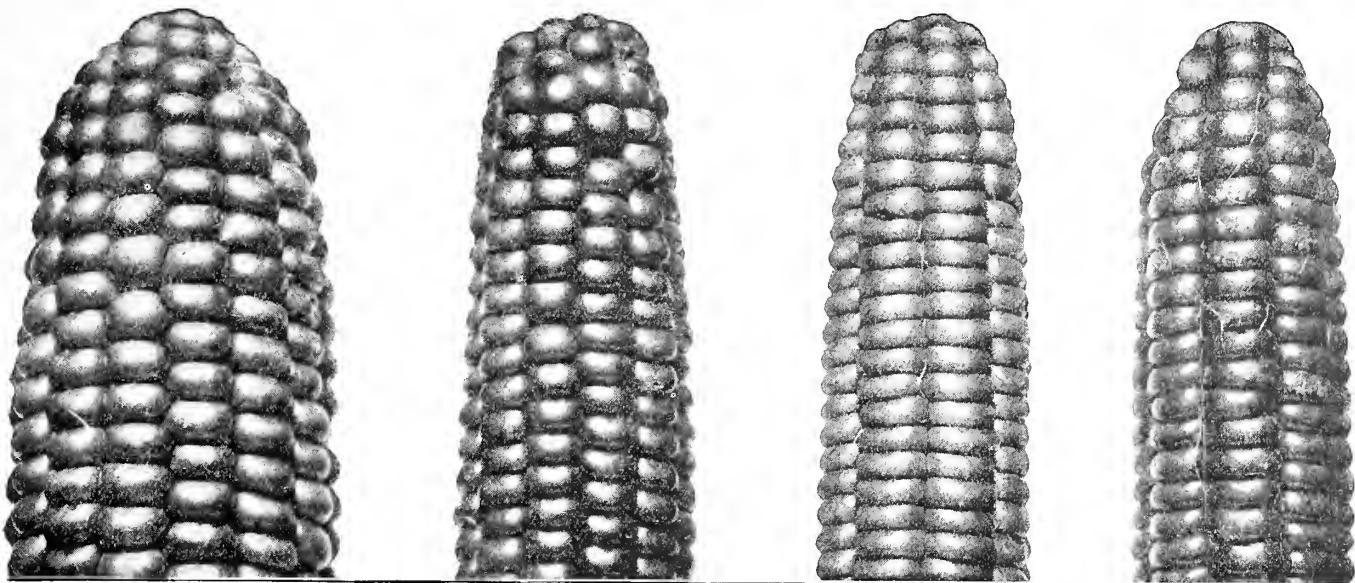


King Philip Flint Corn.

North Dakota Yellow Flint.

North Dakota White Flint.

Squaw Flint Corn.



FIELD CORN, EXTRA EARLY FLINT VARIETIES

Northrup, King & Co.'s Triumph.

Extra Early Yellow Flint.

In the year 1899 we introduced this Corn as the largest eared and most productive of all the early flint varieties. Our customers know that when we send out a new variety that it is just what we claim for it, and so our sales were very gratifying. From every side comes hearty praise of this magnificent variety, more than sustaining every claim made for it.

Our Triumph Corn is a very early flint variety, very bright yellow in color, maturing in from 90 to 100 days from day of planting, according to soil and season. Ears average about 11 inches in length (about 3 inches longer than the Mercer) and are 14 to 16 rowed. Occasionally a 12 rowed ear is found; sometimes one with 20 rows. The kernels are large and the stalks are of good height. The ears average two to a stalk, growing well up so as to readily admit being cut by the harvester. The stalks grow very tall and leafy and make superior fodder. See Red Figure Price List for all prices on seed Corn.

Directions for Planting.—The habit of this Corn allows close planting. The largest crops of both Corn and fodder will be secured by planting in rows, dropping the kernels one at a time one foot apart. If it is desired to cultivate both ways, plant in hills about 3 feet 8 inches apart.

Drew Two Prizes.

I bought one-fourth bushel of your Triumph Flint Corn last year and drew two prizes at the fair.
E. F. KING, Meeker Co., Minn.

Had A Good Crop.

Your seeds have proved to be very satisfactory. The Early Triumph Flint Corn I bought last Spring had a good crop with nice long ears.
GILES BRONSON, Kittson Co., Minn.

Northrup, King & Co.'s Mercer.

Extra Early Yellow Flint.

 Early, prolific, good size ear and small cob. Has been grown in Northern Minnesota and North Dakota for fifteen years with great success and complete satisfaction. Average season of maturity 80 days. Very prolific, having yielded 164 bushels of good, sound ears to the acre; ears average 9 inches in length, 12 to 14 rowed, well filled out to the tips, a rich golden yellow color, has matured in 75 days from time of planting. Many stalks have two and sometimes three good ears. Stalks average about 5 feet in height and make excellent fodder. Very few suckers. See Red Figure Price List for prices.

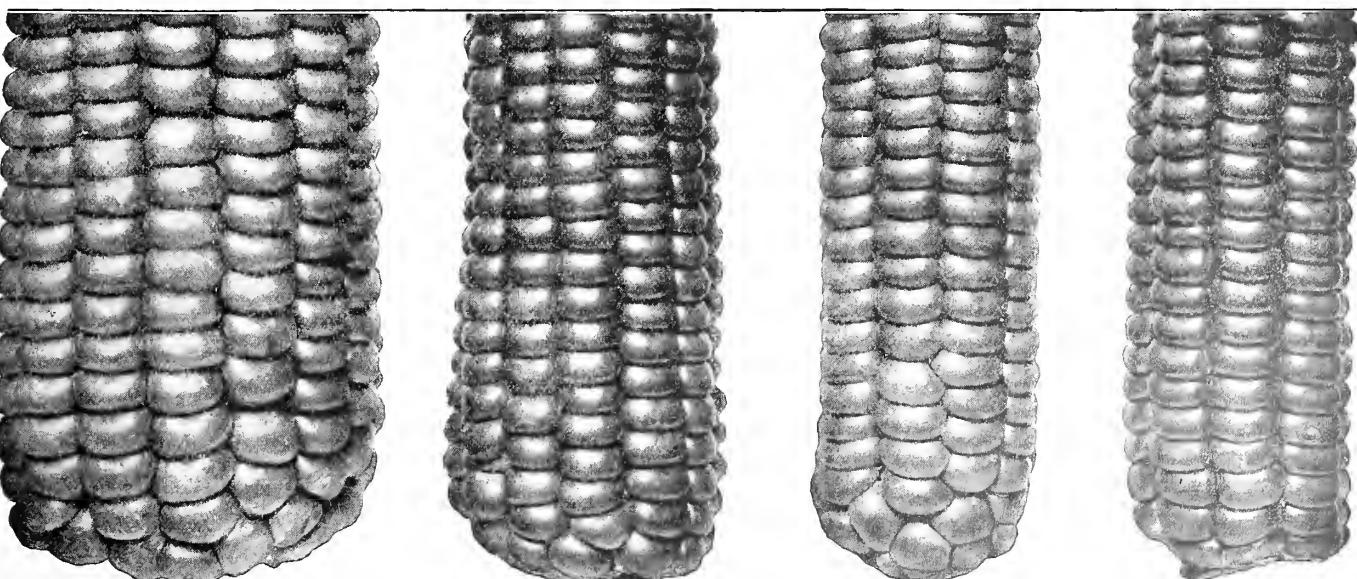
Longfellow. (8-row Yellow Flint.) A very early 8-rowed Corn of the Canada type; ears cylindrical, about 11 in. long; color, rich glossy yellow. The weight of seed Corn is fully 60 lbs. Average height of stalk 7½ ft., average distance base of ear from ground, 3 ft. Price quoted in Red Figure Price List.

Smut Nose Flint. (8-rowed.) A yellow flint Corn blazed with red at end of ear. Ears are large and round. This is a very early variety, and a great favorite in many localities. Our stock is very fine. Average length of ear 10 inches. Average height of stalk 7 ft. 6 in., average distance base of ear from ground, 2 ft. 11 in. See note under Squaw Corn on opposite page.

Matures Quickly.

Your Triumph Flint Corn ought to be introduced extensively into the northern part of New England, as I believe it capable of outyielding the flints now in use. I shall use it for late planting as it matures so quickly and the rows can be planted close together.

HUBERT D. GOODALE, Fairfield Co., Conn.



Northrup, King & Co.'s Triumph Flint.

Northrup, King & Co.'s Mercer.

Longfellow Flint.

Smut Nose Flint.

FOUR LARGE-EARED STANDARD VARIETIES

Not Recommended for Planting North of Parallel 43°, or the Southern Boundary of Minnesota.

Reid's Yellow Dent Corn. This is a splendid yellow dent variety with eighteen to twenty-four rows of kernels on an ear. The cob is small and grains are very close together so that there is scarcely any room between the rows. We do not recommend this Corn for growing north of the forty-third parallel, but for Iowa, Nebraska, Kansas, Missouri, Illinois and other states in the same latitude, this is the Corn to grow. Reid's Yellow Dent has been awarded more prizes at Corn Shows than any other variety.

The ears average from eight to eleven inches in length. The stalk is very heavy, and is not easily blown down. This Corn will mature under favorable conditions in about 115 days.

Our stock was grown for us by one of the largest and most reliable growers in Nebraska. It must be remembered that we do not recommend this Corn for Northern planting except to be used for fodder or silage purposes. This is also true of the other varieties listed on this page.

For prices see Red Figure Price List enclosed in this catalogue.

Iowa Silver Mine Corn. **The Great \$1,000 Corn.** The introducer of this variety of Corn says: "The most marvelous variety of Corn ever offered, and which will surprise everyone who plants it. If the farmers take hold of this as they should it will revolutionize the Corn growing of the country. Stalk grows to a height of about seven or eight feet and sets the ears about three and one-half to four feet from the ground. Just the right height for easy picking. It is early, matured last year in less than ninety-five days. The cob dries out rapidly, so that it is ready for the market very early."

This variety is more generally grown throughout the Corn belt and is more widely and favorably known than any other white Corn. It is a sure cropper; very early, deep grain, pure white, and a good Corn in every way. It seems to have the faculty of producing a better crop on old, thin land than any other Corn, as it seems to adapt itself to unfavorable conditions. This is evidently characteristic of most white Corns.

Silver Mine, is not, of course, adapted to Northern conditions, and we do not recommend it for planting except south of the northern tier of counties in Iowa. In favorable seasons it will produce a crop in southern Wisconsin, and southern South Dakota, but in all seasons is the Corn to grow in southern Iowa, in Kansas, Nebraska, Illinois, Indiana and Missouri. The ears bear sixteen rows, very straight and close together. For the locations mentioned, we believe this Corn will give better results than any other white variety.

See Red Figure Price List mailed with catalogue for prices on all varieties of seed Corn.

Iowa Gold Mine Corn. **A Splendid Yellow Dent Variety.** This Corn is identical in appearance and habit of growth, in size of ear and earliness and in productiveness with the Iowa Silver Mine, and every one who has tried it is enthusiastic in praise of this splendid variety. It is early, ripening but a few days later than the Pride of the North. Ears are not excessively large, but of good size and symmetrical. Color, a bright golden yellow, shining like new coin direct from the mint. Grain is very deep, cob small, and therefore dries out nearly as soon as it ripens. 70 pounds of ear Corn make 60 to 62 pounds of shelled Corn, and in hauling it to the market it weighs out five bushels more to the wagon load than common varieties in the same size wagon. 70 pounds of Corn on the ear have given 64 pounds of shelled Corn and only 6 pounds of cobs. This is unparalleled and cannot be equaled by any other Corn in the world.

The kernels are deep, wedge-shaped. Our Corn has been carefully grown, selected, cleaned and tested. Price subject to market changes. See Red Figure Price List.

King of the Earlies. A large eared variety of yellow dent Corn suitable for growing in Iowa, Nebraska, Kansas, Missouri, Illinois and other states in the Corn growing belt.

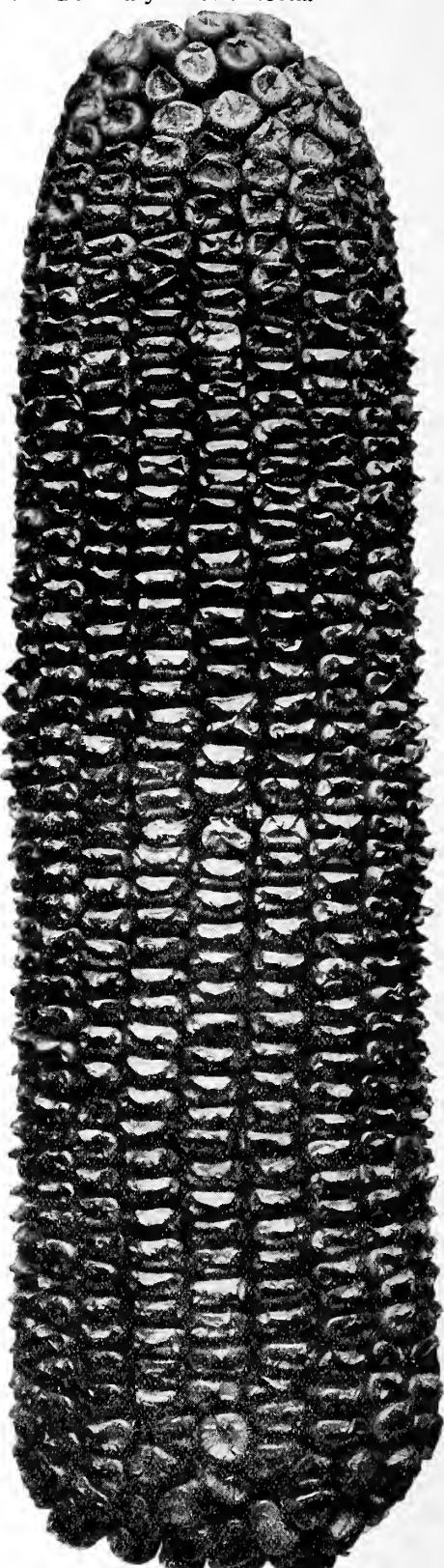
We do not recommend this Corn for Minnesota or any of the northern states, to grow for Corn. But for fodder it will be found very valuable, producing as it does, an immense amount of heavy foliage and the yield of forage an acre is very large. In an extra long and favorable season it may mature here. In the states named above this sort will give a large crop, and is very satisfactory to grow. The ears average ten to twelve inches in length and 14 to 20 rows. The kernels are deep, wedge-shaped and set very close on the cob. Stalks under ordinary conditions are 7 to 8½ feet high. See Red Figure Price List for present values.

Early Murdock

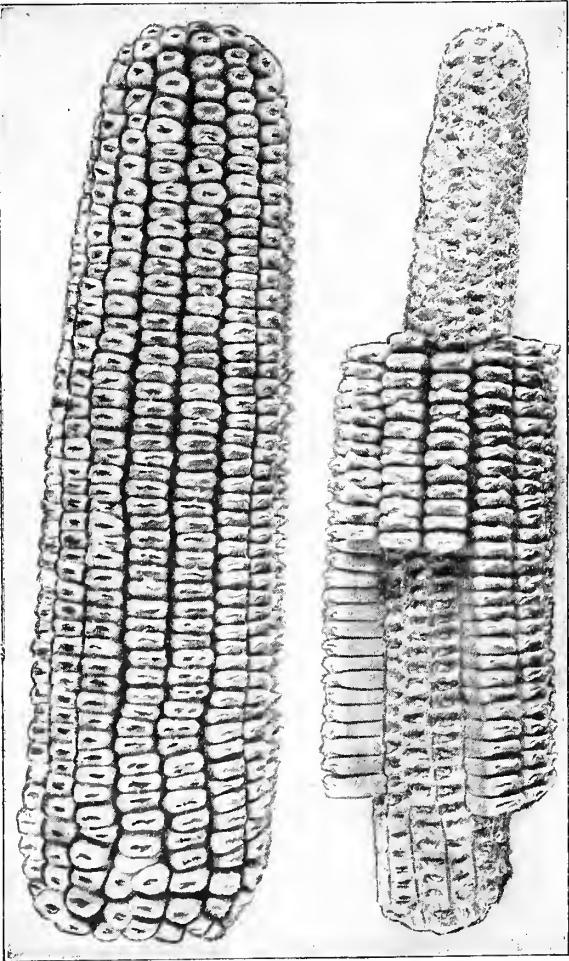
Suitable for Southern Wisconsin and Minnesota and South Dakota.

This is a standard and well known variety in Iowa and southern Minnesota. We have been working on this variety for several years to acclimate it to sections farther north. We can usually offer very fine seed which is safe for growing in the three southern tiers of counties of Minnesota and corresponding territory east and west, in South Dakota and Wisconsin. It may also be grown anywhere south of the locality mentioned and in favorable seasons, would do well even a little north of Minneapolis.

It is considered one of the most productive and as early as any of the deep-kernelled varieties. It is well established in type and is growing in favor with those who know it. It is one of the most dependable of the later varieties. It has a stout, stiff stalk which stands well in storms, growing 6 to 8 ft. high. The ears are borne well up on the stalk. It almost invariably yields well and with good care and favorable conditions, will give very large crops. See page 119 regarding Corn situation, also Red Figure Price List.



Early Murdock Corn.



Iowa Silver Mine. Note the Small Cob.

We Like Them of Course.
We have been using your seeds for nearly ten years. We like them of course or we would not keep on sending for them. We never had a package of seeds in all that time that failed to grow. (Miss) ENA NETTLETON, Wis.

Northrup, King & Co.'s Sterling Silo Corn.

The building of silos throughout the Northwest, and more especially in Minnesota, Wisconsin and the Dakotas, has increased to a remarkable degree. More silos have been built in this part of the United States within the last few years than anytime previous.

This has resulted in a demand for silage best adapted to feeding cattle, sheep, and other live stock on the farm.

Corn is one of the most largely used of the various crops useful for silage, but it is not so thoroughly understood as it should be that its value depends—

First, upon the condition in which it is put into the silo, and

Second, the purpose for which it is to be fed.

Large quantities of Southern Corn are used for silage in sections where ears will not form. Where a large bulk of green feed is desired, as in the case of young stock or milch cows, this Corn may be profitably used, but the feeding value is not nearly so great, ton for ton, as in the more nearly ripened Corn. In other words, except (possibly) in such cases, all sections should use for general silage those varieties of Corn that will, in an average season, form well developed, if not perfectly matured ears.

Following this principle, we have selected for the various latitudes hereafter mentioned, leafy sorts, as tall growing as the section permits, which may be relied upon, in ordinary seasons, to form full sized ears, and, in long seasons, to mature the Corn itself if so desired. We therefore recommend to our customers varieties which should be planted for silage as follows:

Northrup, King & Co.'s Sterling Silo Corn No. 1, ripens north of parallel of latitude 47°, viz; Northern Minnesota and Northern North Dakota.

Northrup, King & Co.'s Sterling Silo Corn No. 2, between parallel 45° and 47°, viz; Central Minnesota, Northern Wisconsin, Southern North Dakota and Northern South Dakota.

Northrup, King & Co.'s Sterling Silo Corn No. 3, between parallels 43° and 45°, viz; Southern Minnesota, Southern Wisconsin, Southern South Dakota and Northern Iowa.

Northrup, King & Co.'s Sterling Silo Corn No. 4, south of the 43rd parallel, viz; Southern Iowa, Nebraska, Kansas, Missouri, Illinois, Indiana, etc.

By the use of these fodder Corns, being careful to order the number recommended for the latitudes mentioned, the grower secures the important advantage of being able to put Corn into his silo, in the precise condition he may deem best for his uses.

Book on Soiling Crops and the Silo. By Prof. Thomas Shaw. Covers fully the growing and feeding of all kinds of soiling crops, conditions to which they are adapted, plan of rotation, etc. Price, \$1.50, postpaid.

PLANTING AND HARVESTING.

Planting. Generally speaking, the seed should be sown in drills 3 ft. 6 inches apart, using $\frac{1}{4}$ to $\frac{1}{2}$ bushel of seed per acre, depending not only on the soil, but also the purpose for which the silage is to be used. Whenever less grain and more bulk is desired more seed may be planted to the acre, giving a greater amount of leaf and stalk but less ear Corn. For fattening beef cattle the opposite is true; the more ears produced the greater the fattening properties and for that reason less seed should be sown per acre, giving it a better opportunity to mature. In either case the tonnage per acre will be about the same. In the one case there will be more leaf and stalk and less ears and in the other instance the opposite, less stalk and leaf but more grain.

Also by the use of these varieties, if the grower wishes, it may be cut at an early stage of its growth and used as fodder. Later it may be put in the silo in any desired stage and if the season promises to be long enough, it may be allowed to ripen for grain if this be decided upon.

Harvesting. Corn intended for the silo should be harvested with a binder and the bundles allowed to remain in the field for a day or two, where they will lose a portion of the moisture. If the leaves become dry, water may be applied from a hose as the corn passes through the silage cutter. Corn that has been frosted and become partially dry in the field may also be treated in this manner, with water, and will make excellent silage.

The Value of Proper Seed Stock. The best seed obtainable costs more than crib Corn, but it is worth many times the difference to the grower. Our experience, of more than a quarter of a century, in growing seed Corn places us in a position to determine which are the best varieties for grain as well as for silage. We offer the above varieties with entire confidence, believing the yields will not disappoint those of our customers who want seed Corn for special purposes.

Our sales of seed Corn are increasing many thousands of bushels each year, which is conclusive evidence that the results obtained from the use of our highly selected and high bred stocks by planters in the Northwest are very satisfactory.

Special Notice: While we specialize in seeds especially adapted for Northern use, our trade in fodder, silage and seed Corn all over the country is growing to such an extent that we are usually in a position to furnish Corn for any purpose or section, and we shall appreciate being given an opportunity to supply seed to our customers for special uses. Write and tell us for what particular purpose the seed is wanted and we will be glad to make recommendations.

Prices.

Owing to the necessity of printing this catalogue in the Fall of the year, the edition being so large, no prices can be quoted here. We enclose in this catalogue at the time of mailing a Red Figure Price List naming values at that time and will continue to issue same during the season, as prices change. Copy mailed to any address on request.

Northrup, King & Co.'s Sterling Silo Corn No. 1. See Red

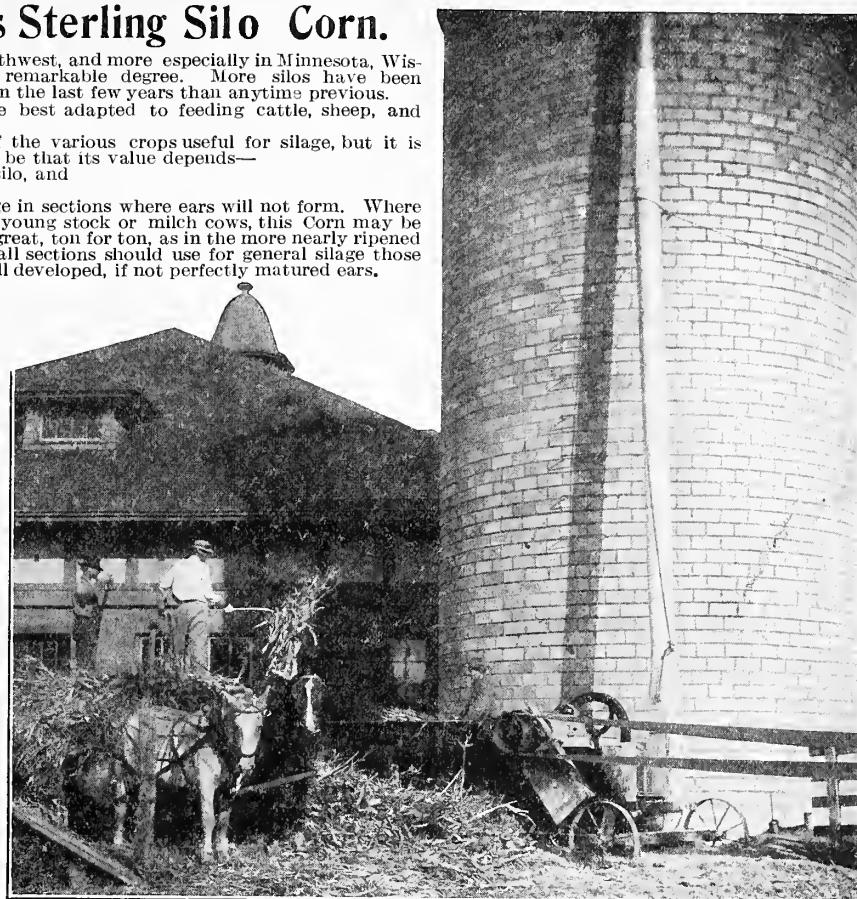
Northrup, King & Co.'s Sterling Silo Corn No. 2. Figure

Northrup, King & Co.'s Sterling Silo Corn No. 3. Price List

Northrup, King & Co.'s Sterling Silo Corn No. 4. for Prices

Write for prices on Silo Corn in large quantities.

Booklet on Silage and Silos. A treatise on growing, handling and feeding silage and instructions on how to build a silo. It will be sent free with orders if requested or will be mailed upon receipt of 5c in stamps.



Cutting Silo Corn on the Minnesota Experiment Station Farm.

HOW TO FILL THE SILO.

Cutting the Corn. The proper time to cut Corn for silo filling is when the kernels are well dented and almost mature. The lower leaves are turning brown at this time but the stalks are still green and contain a large amount of succulence.

If cut while the Corn is still immature and green, the silage will be sour and too laxative in effect, neither does it then have the feeding value that silage made from more matured corn has.

Caution. The blow pipe must be as nearly perpendicular as possible, so that the air will sift the material. If the pipe has much slant, the material will settle on the lower side and clog, the air passing over it instead of pushing it up.

Adding Water. If Corn for any reason becomes over ripe and dry, excellent silage can still be made from it by adding water while it is being cut into the silo, a half a barrel to each load of Corn.

Good silage can be made from frosted Corn in the same way. In order to get a perfect distribution of water in the silage, it should be run through the blower with the silage. This can be done by running a steady stream into the blower by means of a small hose.

Packing the Silage. Thoroughly packing by tramping improves the quality of the silage. This should be done thoroughly, close to the wall. The center will take care of itself.

The surface of the silage while the silo is being filled should be kept concave, that is, lower in the center than at the walls. This will prevent an air space occurring between the wall and the silage from settling later.

Danger. When the Corn is cut into the silo it soon begins to heat, which causes large quantities of carbonic acid gas to be given off. The gas being heavier than air collects in the silo and must be given a chance to flow out before any one is sent into the silo when work commences in the morning.

This may be done by opening a door at the surface of the silage. Running in fresh material will soon mix up the gas with fresh air and make it safe.

Capacity of Silos.

Silage for 200 Days.

Height	Diameter	Tons Capacity	No. of Animals to be fed	Lbs. fed per head per day	Tonsilage required
24 feet	12 feet	54	15	25	32.5
28 feet	12 feet	64	15	30	45.0
28 feet	14 feet	86	15	35	67.5
30 feet	14 feet	92	20	30	60.0
32 feet	16 feet	120	20	35	70.0
34 feet	16 feet	128	20	40	80.0
32 feet	18 feet	162	25	35	87.5
34 feet	18 feet	172	25	40	100.0
36 feet	18 feet	182	30	35	105.0

Book on Weeds and How to Eradicate Them. By Prof. Thomas Shaw. This book contains a complete list of weeds prevalent in the United States and Canada and contains formulas and methods of destroying them. Price, cloth cover, 50c; paper cover, 25c, postpaid.

FODDER CORN

DRY Fodder Corn is probably the most satisfactory substitute for hay, according to the Minnesota Experiment Station. It should yield three to five tons of dry cured fodder per acre, which in feeding value is nearly equal to Timothy hay, ton for ton. Fodder Corn is a more profitable crop to grow than Timothy for fodder on account of its heavier yield. It can be fed to all classes of animals with fine results. Fodder Corn may be sown as late as July 1 with a reasonable assurance of getting a satisfactory return. This makes it fit in well as a catch crop after the other farm work is done. If the Fodder Corn is drilled in and Rape sown with it in the last cultivation, the mixture will furnish splendid summer pasture for sheep and pigs. By repeated sowings three acres of land should easily provide ample pasturage for from fifteen to eighteen brood sows and litters, for the season.



A Field of Northrup, King & Co.'s Giant Fodder Corn. Note its leafy habit. This photograph was taken 60 days after planting.

New Uses for Fodder Corn.

This excellent forage crop has been grown largely in the Corn growing sections because it produces more tons of feed an acre than any other grain or grass—15 tons an acre of green feed are often reported and occasionally 25 to 30 tons are produced on a single acre where conditions are most favorable for its development. Fodder Corn is now sowed broadcast at the rate of two or three bushels an acre for supplemental pasture to be used when grass is short and often dry during the autumn months.

To Kill Quack Grass.

Quack grass is taking possession of many of the best farms in the country. In such cases Fodder Corn is one of the best cover crops to smother this pest by shading it from the sun. Plow the quack grass sod late in the Fall, which, with the freezing of the roots will greatly injure the plant. Cultivate with a spring tooth harrow every week during April and May. Plant Giant or Elephant Fodder Corn in drills, using one bushel of seed an acre and thus smother the quack grass and other weed pests.

LARGE SOUTHERN VARIETIES.

Prices Subject to Market Changes. See Red Figure Price List issued frequently during the season

Northrup, King & Co.'s Giant Fodder Corn.

We believe that in most cases farmers can better afford to pay the price we ask for our Giant Fodder Corn than to plant other Southern varieties as a gift.

First, because in proportion to the quantity of leaf, this variety has a smaller stalk than any other variety. Second, while several other well known varieties of Fodder Corn often grow just as tall and even at times throw out leaves that are as large, the extraordinary productiveness of the Giant Fodder Corn arises from the closeness of the joints; and as leaves are thrown out from each joint, the result is an increased yield of fodder over any other variety. An extra pair of leaves on every stalk will more than pay the entire cost of seed on every acre of ground.

There are many reasons for considering Giant Fodder Corn the best and most economical; certainly it is by far the best of all the large growing varieties. The only objection that has ever been raised to the Giant, is that it grows very large, and is therefore harder to handle than the smaller sorts. We measured one stalk brought in by one of our customers, which was 14 feet in height; at the butt the stalk was two inches in diameter; half way up the stalk, $1\frac{1}{2}$ inches in diameter. It bore 29 pairs of long and very broad leaves. This would seem to afford ample proof of the enormous feeding value of this truly remarkable Corn.

Drill 1 to $1\frac{1}{2}$ bushels to the acre in rows about $3\frac{1}{2}$ feet apart. Five or six kernels to each foot of row. The seed of this variety is very large and pure white. For prices on all varieties of Fodder Corn, see the Red Figure Price List sent out with this catalogue. Values could not be determined when this page went to press.

Reg. U. S. Pat. Off.

The above means that the item to which it applies has been "Registered in the United States Patent Office." Giant as a trade mark to apply on Fodder Corn may be used by us exclusively. No other is genuine. When buying Giant Fodder Corn be sure the above trade mark is on the bag.

Varieties of Fodder Corn.

Fodder Corn may be divided into five classes, viz: Large Southern Varieties, Medium Dent Varieties, Early Dent Varieties, Flint Varieties and Sweet Varieties. Each of these has its friends. All may be successfully grown for fodder in almost any latitude. The merits of each class are briefly stated under their respective headings. If further information is desired, we shall be glad to supply it as far as it lies within our power, and will be pleased to make recommendations when desired. There is one point we want to impress on stockmen, dairymen and others using Fodder Corn, and that is to place your orders early. By so doing you secure the benefit of the present low prices. You can test the seed and have Corn on hand that you know will grow when you are ready to plant.

The question of which is the **BEST** Fodder Corn will probably never be fully settled, any more than will be the question of the best breed of horses or cattle, so we try to present briefly and fairly the leading points of superiority claimed for each variety.

LARGE SOUTHERN VARIETIES.

Prices Subject to Market Changes. See Red Figure Price List issued frequently during the season

Northrup, King & Co.'s Red Cob Fodder Corn. A tall growing Southern variety which is very popular all over the country. In Canada it seems to have the preference over any other sort, perhaps because it has been very widely grown and will produce a large tonnage in a short space of time. It grows very tall and very leafy and is exceeded in this respect only by our Giant Fodder Corn. The seed is white and grows on red cobs, thus giving it the name. Drill $1\frac{1}{4}$ bu. to the acre in rows $3\frac{1}{2}$ feet apart. Prices on Fodder Corn are given on our Red Figure Price List.

Southern White Fodder Corn. This is a tall growing leafy variety possessing the general characteristics of our Giant, but is not so closely jointed and therefore bears a few less leaves, with a correspondingly smaller tonnage per acre. Prices on Fodder Corn are given on our Red Figure List.

Booklet on Silage and Silos. A treatise on growing, handling and feeding silage and instructions on how to build a silo. Contains much information of value and is well worth having. It will be sent free with orders if requested or will be mailed upon receipt of 5c in stamps.

Book on Feeding and Management of Live Stock by Prof. Thos. Shaw. A series of lectures on the principles covering selection, breeding, management and marketing of cattle, sheep and swine. 100 pages. Price, cloth cover, \$1.00; stiff cover, 50c, postpaid.

Just the Thing.

Your Giant Fodder Corn is just the thing for this country. I always raised it when in South Dakota and was much pleased with it there. What I planted early grew eleven feet tall, and what I planted the 6th day of July grew to be seven or eight feet tall. The cattle eat every bit of it, so there is no waste, and I believe it will produce more feed to the acre than anything else one can raise. I planted five bushels of this Corn and I consider it safe to recommend it.

T. V. NASH, Douglas Co., Minn.

FODDER CORN



A Field of Northrup, King & Co.'s Elephant Fodder Corn.

MEDIUM DENT FODDER CORN.

Many prefer for fodder smaller growing Corn than the large and later varieties, claiming for it the following advantages: 1st, that it is more readily handled by the Corn harvester, 2nd, that it matures earlier, and gives well formed ears; 3rd, that it is more easily cured; 4th, that the smaller stalks make finer and richer fodder; 5th, that the fodder is more easily handled in putting through the silage cutter, or fed long.

Northrup, King & Co.'s Elephant Fodder

Corn. We believe this variety will best please the advocates of the type of Corn above referred to. It is tall growing, averaging 7 to 8 ft. It is very leafy. It has a small stalk. It will form, even in Northern Minnesota and in North Dakota, good sized ears, thus adding to its feeding value. It is low in price. Drill in rows about 3½ feet apart, and 60 lbs. per acre.

Elephant Fodder Corn has been registered in the United States Patent Office by us, as we have used this brand in connection with Fodder Corn for a great many years, in fact were the first to use it in this connection. Please note that it is contrary to law for any one to use the brand "Elephant" on Fodder Corn without our permission. Every bag will be marked, "Reg. U. S. Pat. Off." and show the above trade mark. For prices on all varieties of Fodder Corn see the Red Figure Price List enclosed in this catalogue.

EARLY DENT FODDER CORN.

Many stock raisers are growing early dent Corn as it gives a large proportion of fairly well matured ears, producing a very nutritious feed.

Early Yellow Dent Fodder Corn. When sown thickly of one to one and a half bushels to the acre, this seed will give a surprising amount of rich feed, relished by all stock. It can be cut and run through an ensilage cutter for the silo just before maturity or it may be fed in the rack. Prices on all grains, field and grass seeds are listed on our Red Figure Price List, issued at frequent intervals during the season. Values could not be determined at the time this part of the catalogue went to press.

Early White Dent Fodder Corn. May be planted the same as the Yellow Dent Fodder Corn and matures at about the same time. While the Early Dent Fodder Corn does not yield so heavy a tonnage an acre, the resulting crop in most cases is of greater feeding value. For prices on all varieties of Fodder Corn see the Red Figure Price List enclosed in this catalogue.

FLINT VARIETIES FOR FODDER.

Farmers of Maine, Vermont, New Hampshire and Massachusetts use White Flint Fodder varieties almost exclusively. There is absolutely no waste to this class of Corn, as the stalk is eaten greedily, and the feeding value is superior to everything but the Sweet Fodder or Early Dent varieties.

Northrup, King & Co.'s White Flint Fodder
Corn "State of Maine." Our "State of

Maine" Fodder is the tallest growing and best of the white flint sorts. We have great faith that it is to become a most popular variety in the Northwest, and we would like to have our customers give it a trial. Even the staunch friends of "Giant" and "Elephant" will find in the "State of Maine" something for them to "think about." Drill 1 bu. to the acre. For prices on all varieties of Fodder Corn see the Red Figure Price List enclosed in this catalogue.

Early Yellow Flint Fodder Corn. We are selling more of this variety for fodder. Stalk, leaf, ear and all make splendid forage. For prices on all varieties of Fodder Corn see the Red Figure Price List enclosed in this catalogue.

All prices on Red Figure List subject to market changes.

SWEET VARIETIES FOR FODDER

Early Sweet Fodder Corn. This makes capital fodder, and will mature ears in almost any part of the Northwest. The stalk is small, but sweet as honey and nothing can make better feed than this, fed ear and all. Drill 1½ to 2 bu. to the acre, in rows just far enough apart to admit cultivation. For prices on all varieties of Fodder Corn see the Red Figure Price List enclosed in this catalogue.

Evergreen Sweet Fodder Corn. Corn possess very much more "sugar" than any feed sort, and this being the most important constituent, it necessarily follows that the Corn holding this in greatest quantity has the greatest net value. Evergreen Sweet Fodder grows much taller than the Early Sweet Fodder and makes well formed, but not matured ears in almost any part of the Northwest. Drill 1½ to 2 bu. to the acre. For prices on all varieties of Fodder Corn see the Red Figure Price List enclosed in this catalogue.



Early Dent Corn Growing for Fodder.

DWARF ESSEX RAPE



Showing the Wonderful Growth of Dwarf Essex Rape.

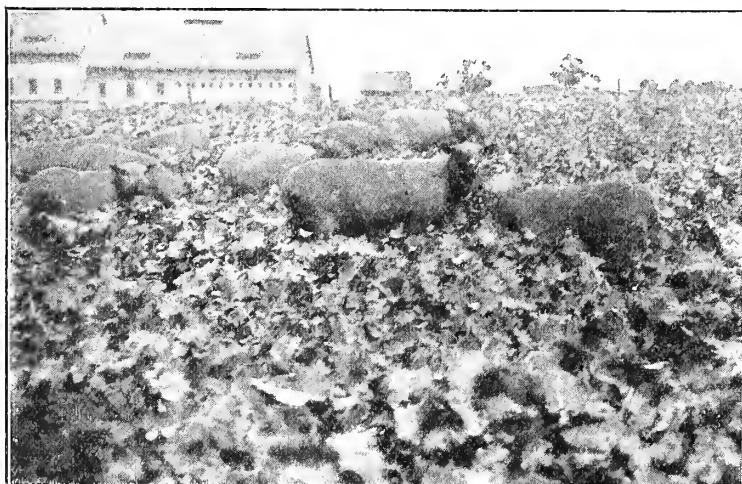
It is an annual, bearing a close resemblance in leaf and stalk to the Rutabaga, but both leaves and stalks are more numerous in the Rape plant, and of a taller habit of growth. It is a pasture plant which may be eaten off by any kind of live stock, but it is preeminently fitted to furnish pasture for sheep, cattle and swine.

It should be from eight to twelve inches high when stock is first turned in and it ought to make growth enough to support at least ten sheep per acre during the growing period of the Rape crop. Rape makes a second growth from the standing roots when the livestock is removed, and may be repastured later. Successive sowings, made three or four weeks apart until July 1, will give a very satisfactory feeding crop throughout the entire summer.

The Iowa Station recommends sowing 3 pounds of Rape seed per acre in the corn field at the last cultivation or before, allowing hogs to pasture the corn and Rape together. They have proved this to be a very profitable practice and it is being carried on in all parts of Iowa and in many adjoining states. This makes the cost of growing the Rape about 40c per acre and nets splendid returns.

Culture. Rape is best adapted to moist, rich soil in which there is plenty of humus. Slough lands are especially good. It grows best in cool, moist weather and the time for sowing depends upon when the crop is to be used. When wanted for pasture, allow 8 to 10 weeks for it to attain maximum growth. Sow 1 to 2 pounds of seed per acre in drills and cultivate, for a weed-cleaning crop. For broad-casting, use 5 pounds per acre on rich, weed-free soil so that the Rape will not be choked by weeds.

For continued hog pasture, sow Rape early and at successive intervals. It may well follow any grain crop and is always splendid to plow under for green manure.



Sheep Pasturing on Dwarf Essex Rape.

Dwarf Essex Rape.

Dwarf Essex Rape is one of the most valuable forage plants, its many uses being fully considered, that has ever been introduced in the United States, and we take pride in having been the first seed house to bring it prominently before the farmers of America.

Now that the sale of Rape Seed amounts to thousands of tons annually, it is interesting, by way of contrast, to look back to the year when we introduced it, and find that our sales for the season were less than 500 pounds.

Our customers can well understand that it gives us great pleasure to have lived to see our faith in Rape, for use in this country, amply justified by the outcome and that our effort to supply the very best quality of seed is recognized all over the United States.

Dwarf Essex Rape has been usually grown, until recent years, to furnish pasture for sheep and lambs, but it is now being found equally good in providing pasture for all kinds of stock.

Under average conditions a yield of from 10 to 20 tons or more of green forage per acre may be expected. According to a recent government bulletin, one acre of Rape with grain will fatten 20 wethers in two months. Ten hogs eat about one-third of an acre in the same time.



Hogs Pasturing on Dwarf Essex Rape. Do they like it?

About Quality and Price of Our Rape Seed.

Our Rape seed is of choice quality, selected stock. We aim to handle only clean, reliable seed which should always give great satisfaction. A saving of a cent or two a pound means from three to ten cents an acre. We do not feel that for this difference between the price of known and unknown seed, that our customers are justified in taking a risk.

Price subject to market changes. See our latest Red Figure Price List for current value. Write for special prices on large lots.

Booklet on Rape. How to sow, grow and use it. By Prof. Thos. Shaw. To all who purchase Rape Seed we will send this pamphlet free upon request.

Meadows, Pastures and Soiling Crops is a small booklet which includes valuable information about Rape. A copy will be sent free upon request, with orders for Rape Seed.

Northrup, King & Co.'s ANNUAL HOG PASTURE MIXTURE

We most earnestly urge upon farmers all over the United States the real importance to them of using this Annual Hog Pasture Mixture of ours. It is called Annual Hog Pasture Mixture because when we commenced selling it many years ago it was intended primarily to supply pasturage for swine. It has, however, proved of such great economic value, not only for swine but all other live stock, that its use is increasing at a rate that is truly amazing even to us who know how valuable a thing it is. It is made from 14 different grains and forage plants, many of which grow again as fast as fed down.

From every part of the country come to us letters telling the result of its use, and if we had room to print these letters, there is not one thoughtful farmer who reads this but would be so thoroughly impressed with the fact that he too should sow this mixture, that he would not fail to secure some of this seed.

No matter how much feed you have for your hogs, sheep and cows you can profitably grow our Annual Hog Pasture Mixture. The results will please you because this mixture furnishes the *variety* they need. Read Mr. John Pfiffer's letter on this point. With a large apple orchard into which to turn his hogs for the wind falls, with ample pasturage of Red Clover, Alfalfa, Timothy and Kentucky Blue Grass, he finds it very profitable to grow this mixture and he states the reasons. Another advantage in growing this mixture is that, sown in the Spring, it comes in when other pasturage is apt to be at its worst, and continues green and bountiful all through the season until Winter. This makes it valuable, too, as a catch crop, for it may be sown as late as the middle of August. We have customers who grow as much as 20 acres of this mixture, but its great general use is in small pastures or paddocks near the barns where the stock may be handily turned in at any time. Those desiring to raise an increased number of sheep and swine should note the fact that its use *decreases the cost of fencing, as an acre yields four or five times as much as most pasture*. One more point, *keep it fed down*. It is best when young and tender and springs up again with amazing rapidity.

It is especially valuable as a crop to grow on feeding lots and cleared portions of the barn-yards. Here it will produce immense quantities of feed rather than a dense growth of weeds, the usual crop for such lands about the farmstead.

Plow bare patches in the hog lots and sow Annual Hog Pasture Mixture where it will soon cover the soil with a heavy growth of green feed. Make all these waste patches about the barn-yards productive with sowings of Hog Pasture Mixture. Make the soil rich with stable manure; sow about corn planting time as the Mixture contains some seeds that require warm weather to germinate them and the plants may be injured by freezing if sown too early.

The quantity of Annual Hog Pasture Mixture required varies according to conditions of soil and climate, but as a rule we recommend sowing 50 pounds to the acre. Price, \$5.00 per 100 lbs. In 500 lb. lots, \$4.75 per 100 lbs. Sacks free. (Six cents per lb. in less than 100 pound lots.) Subject to market changes.

WHAT USERS OF NORTHRUP, KING & CO.'S ANNUAL HOG PASTURE MIXTURE SAY ABOUT IT.

Mr. John Pfiffer's Letter.

The hogs, pigs and calves on my farm have the run of a large apple orchard which is seeded to a variety of grasses, including Clover, Alfalfa, Blue Grass, Timothy, etc. These supplemented with the windfalls from the fruit trees make a fine pasture. However, I believe that best results are obtained from the use of the largest possible variety of forage plants in the pasture. I sowed an acre to your Annual Hog Pasture Mixture. It made a wonderful growth and 23 tons of feed is understanding the yield that acre gave me. I kept 50 pigs on it while they were weaned from their mothers. It grew faster than they could eat it. The cows were turned on the Hog Pasture Mixture after milking to keep it down. It makes a splendid all summer pasture for all kinds of live stock. JOHN PFIFFER, Minn.

Remarkable Results.

I bought some of your Annual Hog Pasture Mixture and it produced very remarkable results. C. F. UNDERHILL, Minn.

It Did So Well.

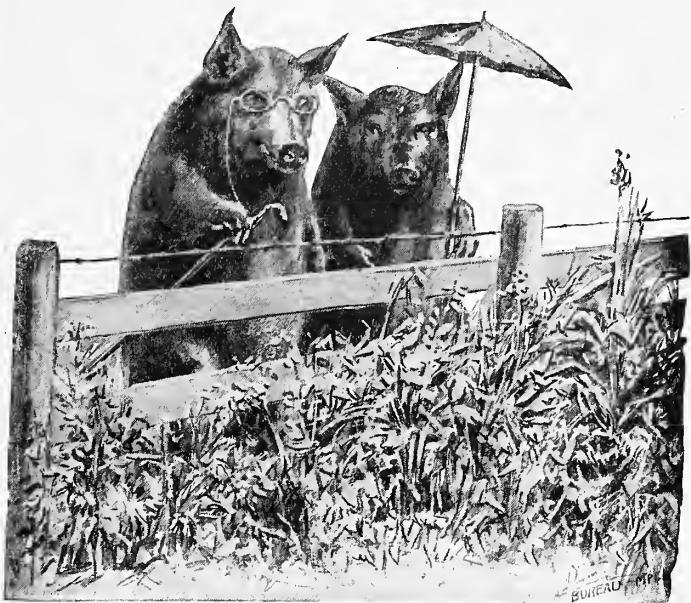
Give me your prices on 2000 pounds of your Annual Hog Pasture Mixture. Yes, I want one ton. It did so well last year that I wish to double the dose. JOHN F. CLOSS, O.

Consider it the Best Thing.

I wish to say that I have used your Annual Hog Pasture Mixture and consider it the best thing that ever came to the farmers of the Northwest. Hog raising has always been conducted on a small scale on most of our farms because, until this mixture of yours was introduced, nothing could be found in the form of an annual plant that would furnish good pasturage from Spring until Fall without becoming woody and tough, unless it was sown at intervals. Now I look for a large number of farmers to engage in the hog raising business and also for those who are already in it to increase their herds, for with such a magnificent pasture as your hog mixture supplies, the Northwest can raise and put upon the market a better class of pork at a lower cost of production than any other section of the United States.

Again, thanks to you and your Annual Hog Pasture Mixture for placing these favorable conditions within our reach. I am with kindest regards, yours truly, O. R. ANEY.

\$1,000 HERD BOAR "SUN-LIGHT" raised on Northrup, King & Co.'s Annual Hog Pasture Mixture. Sunlight was owned by Mr. O. R. Aney, S. D.



A New "Point of View."

Mr. Hog: "Really, my dear, I think we shall have to raise our farmer's wages. He has shown most commendable foresight in providing us with this excellent pasture. In all my farming experience I have seen nothing like it."

It's the Greatest Money Saver.

I bought a lot of your Annual Hog Pasture seed in the Spring. I hope your firm will carry it another year. It's the greatest money saver, in keeping hogs, we ever had on the place. J. N. TITTEMORE, Maple Lodge Farm, Wis.

Hogs Could Not Keep it Down.

I sowed one acre to your Annual Hog Pasture Mixture and had thirty hogs running on it all season. They could not begin to keep it down and I was very much pleased with it, and can recommend it to anyone engaged in the hog raising business. PETER FRANDSON, Iowa.

It Saved Many a Dollar.

Your Annual Hog Pasture Mixture was a great success. It saved me many a dollar in buying feed last Summer; it surprised my neighbors. JOHN COLEMAN, Minn.

Found them O. K.

I have sent to you for two years for my seeds and have found them O. K. in all respects. I have received no seeds that did not give good satisfaction in every particular. I am in the market for more for next Spring. R. A. WERNER, Gackle, N. D.

Very Good Results.

I have seeded Northrup, King & Co.'s Annual Hog Pasture Mixture for two successive years and have had very good results. Also your Elephant Fodder Corn is a bumper crop. It yielded 60 pounds to the rod in the row. The fact is I cannot get along without these two kinds, as I don't know of any other seeds that will give as much green feed as these do. L. A. WEISETH, S. D.

Especially Satisfactory.

Your seeds for the past three years have always proved satisfactory especially your Annual Hog Pasture Mixture. JOHN DAHLBERG, Wis.

Used It Five Seasons.

The Annual Hog Pasture Mixture purchased from you has been so satisfactory I think you should know it. This is the fifth season I have sown it and consider it the best of anything I have seen. During the past five years I have purchased several hundred pounds of your Sterling Timothy, Medium Red and Alsike Clover and Alfalfa, and cannot speak too highly of the results. Our neighbors who have always believed in the average run of seed have pronounced it the finest they have ever seen and some have been using it on account of our good crops. I always take pains to speak a good word for your seeds as I think you are entitled to it, and many more should use them than are now doing. F. L. DAGGETT, Minn.

PERMANENT HOG PASTURE MIXTURE

So great has been the success of Northrup, King & Co.'s Annual Hog Pasture Mixture, that we now offer a permanent mixture which, once sown, will remain for years without re-seeding. This mixture is offered with the confidence that it will give stock raisers entire satisfaction. It has already been thoroughly tested and proved of great value for all kinds of stock. It contains four varieties of Clover, besides many kinds of grasses. We do not recommend this to entirely displace our Annual Hog Pasture Mix-

ture, as it will not produce so much in bulk, nor make new growth so quickly after pasturing. It is, however, a substantial mixture which will prove a profitable investment to any farmer and, we are safe in saying, cannot be equaled anywhere. Not only is it suitable for hogs, but sheep, cows and horses relish this rich pasturage. You cannot afford to be without it. Order both kinds to keep your stock well supplied with abundant feed. Sow from 20 to 25 lbs. of seed an acre. Price, \$16.50 per 100 lbs. Sacks free. In less than 50 lb. lots, 19c per lb. Price subject to change.



FORAGE AND SOILING CROPS.

SORGHUM OR SUGAR CANE.

Prices subject to market fluctuations.

See latest Red Figure Price List, which will be mailed free to any address, upon request.

Note the wide range of uses to which Sorghum may be put, and its great value in each case.

As a soiling crop, Sorghum will always prove of great value, since at least two crops can be obtained from one sowing. Milch cows are exceptionally fond of Sorghum. It is excellent for milk production and a given area furnishes a large quantity of succulent food. An acre of Sorghum yielding 15 tons of green forage would feed 50 head of stock for 10 days. It should be fed sparingly at first, to avoid bloating.

As a pasture crop for sheep and swine it has no superior. When grazed down it will quickly spring up again, thus a large amount of pasture may be obtained at a season when forage is scarce. Cattle should be accustomed to it gradually. Sorghum pasture is said to enable hogs to maintain a steady, profitable growth through the Summer. Mixtures of Sorghum with Barley or Oats have been found to give heavier yields than Sorghum alone.

As a fodder crop it furnishes an enormous amount of feed. Sorghum outyields Fodder Corn, producing a richer and more nutritious feed of greater value. Thus it will be seen that utilized as a pasture, as a soiling and fodder crop, it may be made to furnish feed nearly the whole year round.

Sorghum can be profitably grown in all the tillable portions of the United States that will produce Corn, and will withstand drought better than corn.

Culture. The land should receive essentially the same treatment as for Corn. A liberal application of well rotted barnyard manure will be a great aid in producing large crops.

The quantity of seed to be sown to the acre depends on climatic conditions and upon the mode of planting. If sown broadcast, or with a grain drill, all tubes in use, 50 to 60 pounds of seed to the acre will usually suffice. Where the moisture is likely to prove inadequate to the growing crop, more satisfactory results will be obtained by reducing the quantity of seed. When grown in single rows with a space between them, a less quantity of seed than above stated will suffice, depending upon the distance between the rows.

In favorable seasons the heaviest yields of forage are usually secured from broadcasting or drilling in close rows. The stalks are finer and eaten more readily. The resulting crop may be cut with a mower and cured in swath or cock or cut with a binder or scythe.

Sorghum sown broadcast and harrowed in, can be harrowed until 4 to 6 inches high without injuring the young plants. Sorghum in wide rows should be cultivated like Corn.

Minnesota Sorghum. Early Amber Cane. This is the earliest, richest and altogether the best sort for Northern latitudes, and is the only variety which can be relied upon for sugar or syrup in Minnesota. It produces a rich, clear syrup for which Minnesota has become famous, the usual yield being from 150 to 250 gallons an acre. The yield of seed is also large, amounting to 20 to 25 bushels an acre. As a fodder plant we believe this excels the Southern Cane, as it is sweeter, contains more nutriment and is more relished by stock. From the illustration it will be seen how leafy and tall the Minnesota Sorghum grows. The stalks are rather slender and leaves comparatively narrow. The seed heads are dark colored and vary considerably in size. See Red Figure Price List for prices of all Sorghums.



Single plant of Schrock Kaffir Sorghum showing stooling habit.



Minnesota Sorghum. Note its Height and Leafy Habit.

Southern Cane.

This variety does not mature so rapidly as the Minnesota Sorghum, but the yield is very much heavier. When Sorghum is grown for fodder only, the Southern Cane will give the greatest tonnage and is usually grown on that account by dairymen, to feed their milch cows. It is also desirable when grown as a pasture plant for sheep, hogs or cattle. All kinds of stock eat it readily. Southern Cane is not suitable for making syrup when grown in the North, but for feeding purposes is splendid. See cultural directions above. It can be sown at the rate of 50 to 60 lbs. per acre. Write for special prices on large quantities. See Red Price List for current values.

Schrock Kaffir Sorghum.

A new drought-resisting variety particularly adapted to all semi-arid regions. This Sorghum is very upright in habit and stools freely. The large seed heads are wonderfully well filled and the leaves are exceptional in size and extremely numerous. Schrock Kaffir Sorghum has been tested at the Kansas and Oklahoma experiment stations with very satisfactory results. Under ordinary conditions the average yield is estimated to be thirty bushels per acre, while under very favorable conditions it will produce as much as seventy bushels per acre.

As a grain it is used for stock food and is equivalent to White Kaffir Corn in feeding value. As a dry fodder it is excellent, equaling Sudan Grass. Six and one quarter tons per acre of dry fodder were produced at the Oklahoma Experiment Station.

Culture is the same as for Kaffir Corn. Use about three pounds to the acre for grain and about fifty pounds per acre for fodder. Plant the same time as corn. For prices see the Red Figure Price List.

Sudan Grass.

This grass was introduced by the Department of Agriculture and it has been tested at several experiment stations. Prof. A. C. Arny of the Minnesota Experiment Station writes us as follows:

We have experimented with Sudan grass quite extensively for the past two years. As far as I can see at the present time, it looks as though Sudan grass could well take the place of Millet or any other annual hay crop. If sown about May first at the rate of thirty-five to forty pounds per acre, it may be cut some time in July just before heading out. This gives time for a second growth to reach the stage where it can be used for pasture or cut for hay. From the fact that Sudan grass may be used to produce two crops per year from a single seeding, it looks to me as though it should be preferable to Millet.

This does not mean that Sudan Grass will replace Timothy or Clover but will doubtless compete with Millet wherever that is now grown.

Sudan Grass belongs to the Sorghum family. It is an annual, lacking underground root stalks. Two cuttings can be obtained under favorable conditions, and growers near Minneapolis report two big crops last season. The yields vary from 1 to 8 tons of cured hay per acre.

Sudan grass when seeded broadcast or in drills averages about 3 to 5 feet in height and has stems a little smaller than a lead pencil, being about three-sixteenths of an inch in diameter. If grown in rows and cultivated it reaches a height of 5 to 9 feet, and the stems are larger than usual, being about one-fourth of an inch in diameter. The panicle is loose and open.

It is splendid for growing in mixtures with Cowpeas and other legumes, as its stiff stem supports the vines and makes harvesting of the legumes easier by keeping them off the ground. It also allows them to cure more quickly by preventing the leaves from matting. The yields from these plantings are very large and the feeding value of the hay is considerably improved, as the legumes are all high in protein.

It does best in hot weather and is not suited to high altitudes. Sudan Grass makes heaviest yields on a rich loam, but it has been grown successfully on almost every class of soil from a heavy clay to light sand. The ground should be firm and well drained.

Sow Sudan Grass after the soil has become warm, about corn-planting time. It may be drilled from one-half to one inch deep. For seed production, sow 6 lbs. per acre in rows and cultivate. When broadcast, sow 16 to 24 lbs. per acre. It may be cut with a mower or binder. For prices on Sudan Grass see Red Figure Price List enclosed herewith.

Cow Peas. *Northern Grown.* Furnishes good pasture for cattle, sheep and swine, may be used for soiling or hay, but for the two purposes last named it is a little difficult to handle. It has great power to enrich the land by putting in it nitrogen drawn from the air, and since it may be grown as a catch crop, an immense future lies before it in enriching the soils. When pastured by cattle, the early pods should be well formed before turning in the stock. When pastured by swine, the crop should be allowed to get nearly ripe. When plowed under as a fertilizer, the plowing should be done when the plants are in full bloom.

They are able to grow on nearly all soils except those that remain wet all Summer. However, in the Northwest sandy and loamy soils are preferable.

Cow Peas are usually sown broadcast at the rate of four to six pecks per acre. When drilled, two to three pecks are usually sufficient when the rows are far enough apart to permit cultivation. Prices on all field seeds are listed in our Red Figure Price List, issued at frequent intervals during the season. Values could not be determined when this part of the catalogue went to press.

Cow Peas, Southern Grown. Similar to above variety but later maturing, culture the same. For prices see Red Figure Price List.



Cow Peas.
Note the Long Trailing Vines.

Soy or Soja Beans. *Northern Grown.* Valuable for hay or soiling food for cows, hog and sheep pasture, also green manure. They resemble the navy bean in general appearance. Like clover they are great soil enrichers, gathering in nitrogen from the air and storing it in the soil. Many tests show that they may be grown wherever Corn will ripen. The Northern grown Beans are harder and mature earlier than the Southern ones. They should be planted after Corn in rows 2½ feet apart with six to 8 plants to the foot of row if grown for the beans, requiring about one-half bushel of seed per acre. When grown for hay, it is preferable to plant the rows closer together or sow broadcast, at the rate of 40 lbs. per acre. See Red Figure Price List for latest values.

Soy Beans, Southern Grown. Culture and description same as for the Northern Grown Beans, except that the Southern ones may make a ranker growth and mature later. See Red Figure Price List for latest values.

Sunflower, Mammoth Russian. Sunflowers are especially useful in the poultry run as the large leaves furnish shade for the young chicks, also the seeds make a good addition to the poultry ration. They are very rich in oil and protein and are splendid to feed during the moulting period and winter months. They are also valuable for hogs. Sow the seed in rows far enough apart to admit of cultivation, 2 to 3 pounds will plant an acre. The plants will grow from 6 to 10 feet high and will be literally covered with large heads well filled with seed. For prices on Sunflower seed see Red Figure Price List enclosed herewith.

Feterita. A wonderful new grain which has attracted considerable favorable attention in Kansas, Missouri and Oklahoma. It belongs to the Sorghum family. It was introduced from Africa by the United States Department of Agriculture. The advantages claimed for Feterita are its drought resisting qualities, its heavy yield, its earliness, its stooling propensities and its freedom from insect pests. It is of medium height and about equal to Kaffir Corn in feeding value. Feterita successfully withstood dry weather in Kansas and nearby states during 1913 and yielded under these unfavorable conditions, 35 bushels per acre and more. Under proper conditions, it will yield 60 to 75 bushels to the acre. It branches very freely from the roots, making from three to eighteen heads from a single stool. It is from two to three weeks earlier than Kaffir Corn, and should successfully mature in the North. Culture same as for Kaffir. The clinch bugs will consume other crops, but seem to leave Feterita entirely alone.

For prices on Feterita see Red Figure Price List enclosed herewith.

Kaffir Corn. Grows 4 to 5 feet high. The stem or stalk bears numerous wide leaves. The stalks are brittle and juicy, not hardening like other varieties of sorghum. It makes excellent fodder, either green or dry, which is highly relished by cattle and all kinds of stock. The seed crop is also heavy, sometimes 50 to 60 bushels to the acre. For grain, sow in rows 3 feet apart, 3 to 5 pounds of seed to the acre. For fodder, sow ¼ to 1 bushel either broadcast or in drills. See Red Figure Price List for latest values.



Soy Beans Make Excellent Sheep Pasture.

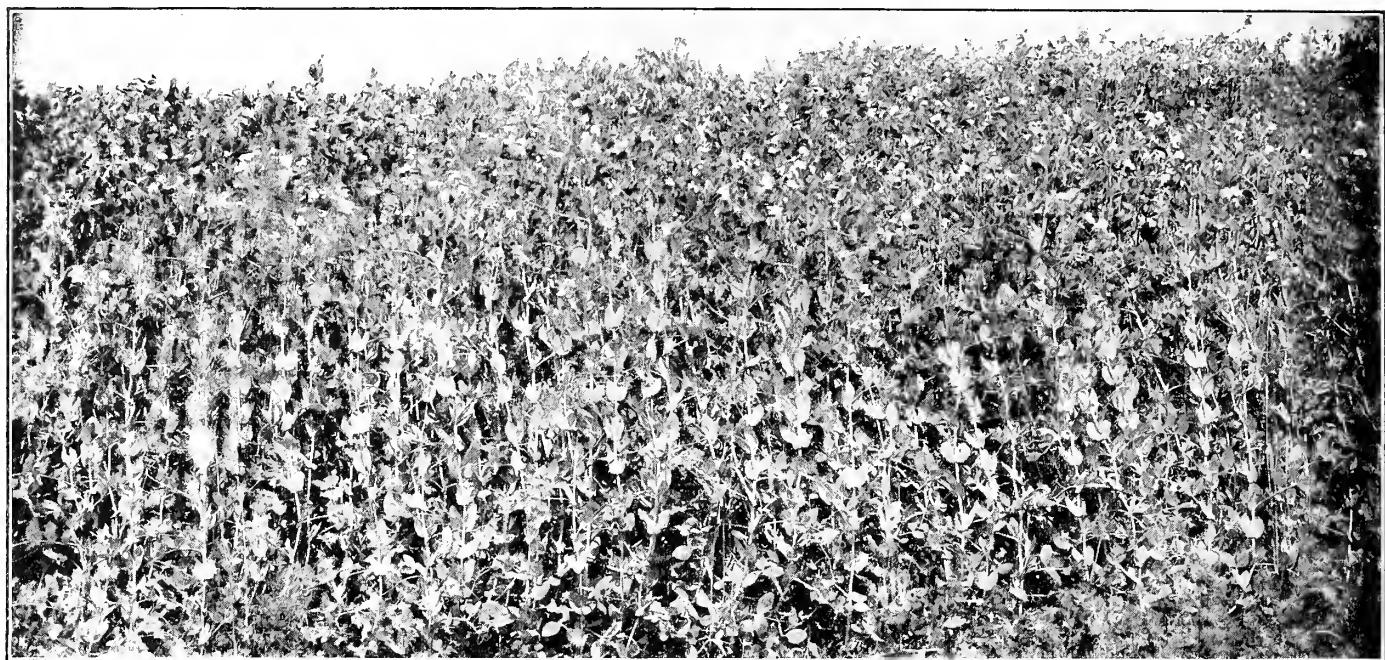
Thousand Headed Kale. This is a variety of cabbage. The plant attains a height of three to four feet. The stem is covered with leaves which form small heads. Animals, especially sheep, eat it greedily. It grows well on most any land and is hardy. The seeds may be either drilled or broadcasted, but we think drilling is better. If drilled, plant in rows 26 to 30 inches apart, so that plants may be thinned out so as to stand 16 to 18 inches apart in the rows. In drilling use ¾ to 1 pound of seed to the acre. In broadcasting 1½ pounds are required. Prices by mail, postpaid, large pkt., 5c; ¼ lb., 25c; lb., 75c. By express or freight, at purchaser's expense, 10 lbs., \$7.00.

Australian Salt Bush. Yields large crops of excellent fodder and silage. Our grower of seed writes as follows: "Salt Bush should not be planted on foul ground or where it cannot be given tillage to start it. After it is established, it is a strong grower and will thrive in poor soil, alkali, heat and drought to an astonishing degree. I have produced nearly forty tons per acre of green forage on good wheat ground. Provide a good seed bed, then drill the seed in thinly, four feet apart, covering slightly and firming down. Keep the weeds out until it gets a start. For dairy pasture it cannot be excelled. In the North, Salt Bush is an annual; farther south, a perennial. Two pounds of seed will plant an acre. The value of Salt Bush has never been appreciated and should be given more attention by farmers everywhere." Pkt., 10c; ¼ lb., 30c; lb., \$1.00, postpaid.

Peanuts, Iverson's Improved. This variety combines earliness, large size and prolificness, yielding fewer imperfect pods and less "pops" than any other sort. The vines are a valuable feed for horses, cattle and sheep. An acre will produce from one to two tons of vines. The nuts are relished by nearly everyone. Peanuts do best on a light sandy soil, but any open soil will do. The ground should be plowed deeply and thoroughly harrowed. Careful tillage is important. Seed peanuts should be carefully hulled to prevent breaking the skin on the kernels. They should be planted in rows two and a half to three feet apart and ten to twelve inches apart in a row. Cover with about two inches of earth. When they are matured, pull them up and expose to the sun for a few days. Pkt., 10c; lb., 30c, postpaid. Write for special price in large quantities.

Peanuts, Small Early Spanish. This variety, although small, is best suited for growing in the North, being earlier than any other sort. It yields enormously, pods that are solid and unusually well filled. As a confection it is sweeter and more delicious than the larger varieties. Seeds should be planted in drills, 3 feet apart, 8 to 10 inches apart in the row. Plant is of upright, bushy growth, making cultivation easy.

Prices, packet, 5c; pound, 30c, postpaid.



A Field of Canada Field Peas. Four feet high at time of blossoming.

FIELD PEAS

PRICES. For prices on Field Peas see Our Red Figure Price List which is enclosed in this book. Prices on field and grass seeds subject to market changes. New price list sent anytime upon request.

"Peas could be made to bring more nitrogen to the soils of this country every year than is now purchased annually by the farmers at the cost of millions."—Year book of the U. S. Department of Agriculture.

The above statement, coming as it does from a reliable source, gives the progressive farmers of this great Northwest something to think about. Grain has been grown year after year on many farms, sapping the life and fertility of the soil. Here is a crop which is not only profitable but will return to the land the much needed nitrogen. Peas are second only to Clover in their soil enriching properties and can be grown under almost any condition of soil or climate. There is always a ready market for Peas, or they can be profitably ground and fed to stock. The vines make rich, nutritious hay. If fed to milch cows, when green they increase the flow of milk. Peas are a paying crop and can be profitably planted in many ways. First. When sown alone about three bushels are required to the acre. They can be matured and threshed when dry. The yield will vary from 30 to 60 bushels an acre.

Second. Peas and Oats are frequently sown together, using $1\frac{1}{2}$ bushels of peas and 2 bushels of Oats an acre. By so doing a double crop can be secured. They can be threshed at one time and readily separated in cleaning.

Third. They can be sown alone or with Oats and fed green. It is surprising the amount of fodder which is produced in this way. If sown together, sow Peas first and plow under four inches; then drill in the Oats.

Fourth. For plowing under when Peas and Oats are sown together and each are "in milk," they are nearly equal in value to Clover, used in the same way, to enrich the soil.

Golden Vine Field Peas. Yellow. Height of vine, $3\frac{1}{2}$ to 4 ft. A fine, vigorous variety. This strain is especially desirable on account of the heavy yield. On good soil it gives a very heavy crop and yields fairly well on land so poor as to be otherwise non-productive.

Canada Field Peas, Yellow. Height of vine $3\frac{1}{2}$ to 4 ft. This is a standard variety of Field Peas and needs no special description. This variety is extensively grown in Canada, Wisconsin and other Pea growing sections, and has a large sale, not only for agricultural purposes, but for use in soups. It is also fine for pigeons and poultry.

Canada Field Peas, Green. Height of vine $3\frac{1}{2}$ to 4 ft. Of the same general character as Canada Yellow Field Peas. Used for the same purposes, but the seed is green in color instead of yellow.

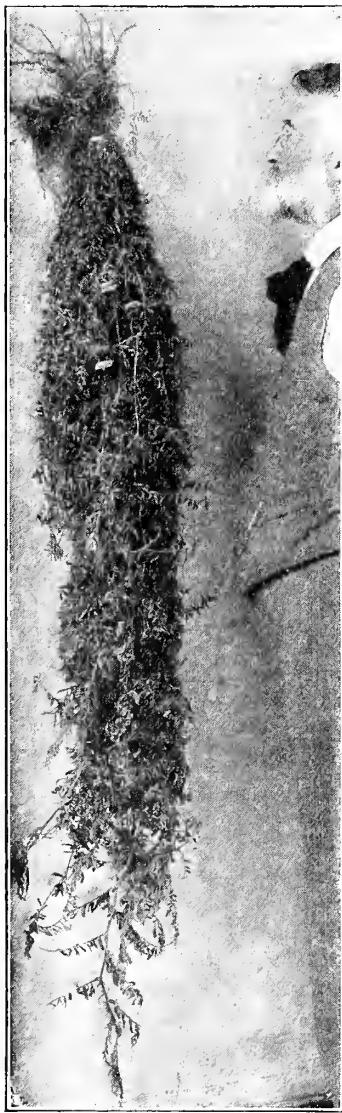
Scotch Peas. Grown largely for early green forage. Foliage is more rank and abundant than Canada Peas. Sow one to one and a half bushels per acre with Oats for support.

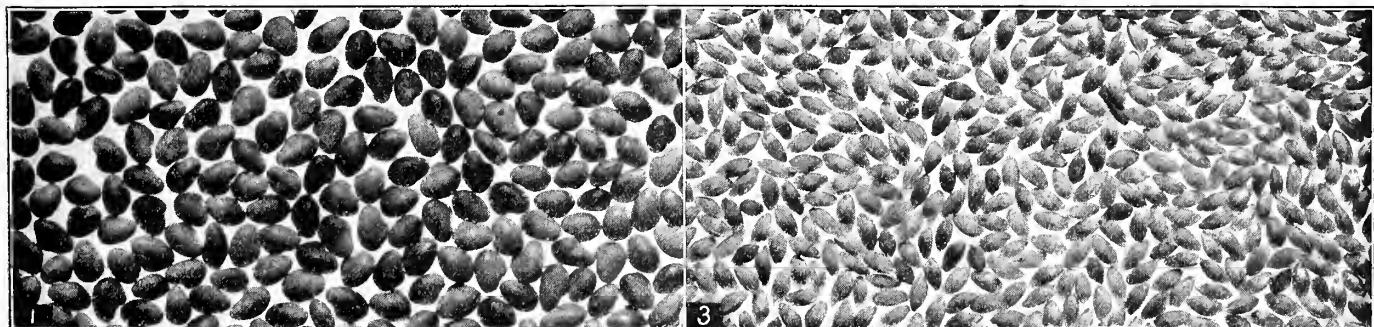
VETCH

Sand or Winter Vetch. (*Vicia Villosa*) Sometimes called Hairy Vetch. This is a very valuable forage plant and is rapidly becoming more popular each year as the farmers of this country are learning more of its great value. It is very hardy, is valuable as a winter cover crop to prevent leaching, and for forage and fertilizing purposes. It is an annual, but re-sows itself and will come up year after year on the same ground. It succeeds well on nearly all soils and thrives surprisingly on poor, light land and will endure extremes of drought, heat and cold. It improves the soil, being a great nitrogen gatherer. The roots bear innumerable nodules of nitrogen-gathering bacteria. These take the nitrogen from the air and restore it to the soil where it is so much needed. It belongs to the Pea family, but the vines are much longer and the foliage is more abundant. The vines in the illustration were from the second crop and measure five feet and seven inches in length. These plants were grown within a few miles of Minneapolis, on the farm of Mr. James J. Hill. It may be sown either in the Spring or Fall with about half a bushel of Rye or Oats for support. It grows rapidly and is particularly valuable in sections where Clover does not thrive. In the North it remains green all Winter under the snow and it is invaluable for early pasturing or soiling. The Department of Agriculture estimates the value of an acre of this Vetch plowed under equal to commercial fertilizer at the rate of from \$16 to \$40 an acre. When sown in August or September it covers the ground before frost and prevents leaching of the soil during the Winter and Spring. When sown in April or May it can be cut in July, the second growth affording excellent pasture during the Summer. The yield of green fodder is from twelve to twenty tons an acre. This may seem to be an exaggerated statement but when the amazing stooling propensities of this plant are taken into consideration the yield is readily accounted for. As many as twenty long vines spring from each root. When raised for hay it should be left standing until some seeds have become well formed. We especially urge farmers of the Northwest to try Sand or Winter Vetch. Not only does it produce an enormous amount of very valuable feed, but it at the same time restores to the soil a great amount of fertility which is so much needed. It will not disappoint. Plant at least an acre this season 50 to 60 pounds of seed required to the acre. For prices of Vetch see Red Figure Price List enclosed in this catalogue.

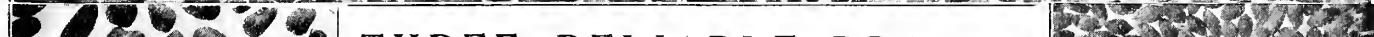
Spring Vetch. Known also as Tares, English Winter Vetch, Oregon Winter Vetch or Common Vetch. Used for the same purpose as the Sand Vetch but must be planted in the Spring whenever the Winters are severe as this variety is not so hardy as Hairy Vetch. It succeeds wherever Canada Field Peas thrive. If sown alone, use 60 lbs. of Vetch per acre and if with Oats, 60 lbs. of Vetch and 40 lbs. of Oats are usually seeded.

Spring Vetch thrives in a well-drained soil, doing best in loams or sandy loams though excellent crops are grown both on sandy and gravelly soils. On poor soils special care should be taken to provide thorough inoculation. See page 141 for "Nitragin." It is adapted to a variety of uses such as hay, green feed, pasture and green manure. For price, see Red Figure Price List enclosed herewith or a new one will be sent promptly, upon request. Prices on field seeds subject to market changes. See page 141 for "Nitragin."

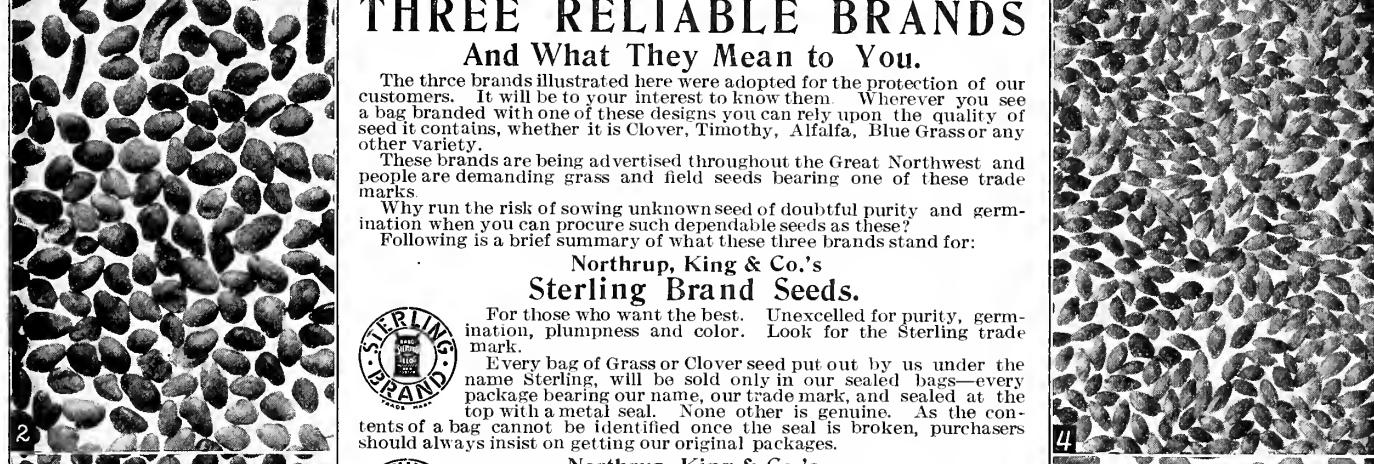
Winter Vetch, Second growth.
5 ft., 7 in. long.



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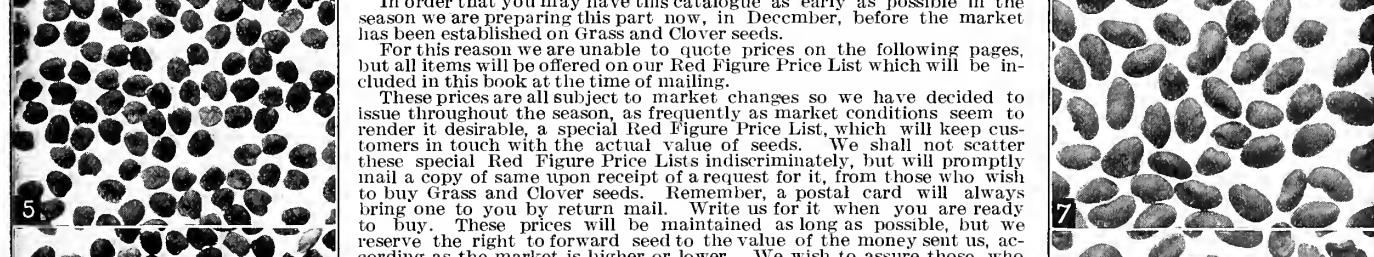
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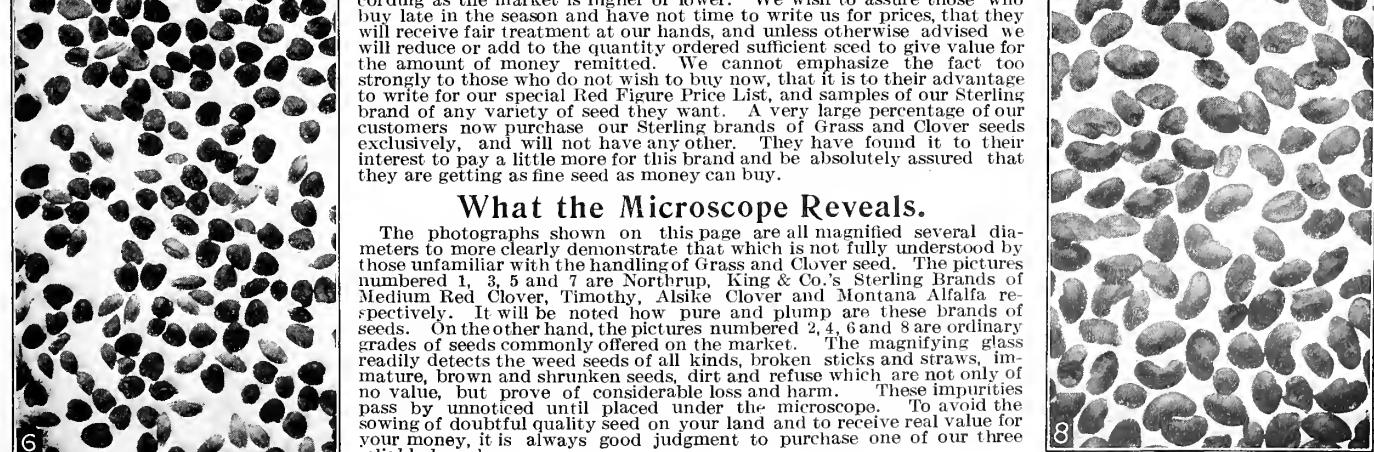
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THREE RELIABLE BRANDS And What They Mean to You.

The three brands illustrated here were adopted for the protection of our customers. It will be to your interest to know them. Wherever you see a bag branded with one of these designs you can rely upon the quality of seed it contains, whether it is Clover, Timothy, Alfalfa, Blue Grass or any other variety.

These brands are being advertised throughout the Great Northwest and people are demanding grass and field seeds bearing one of these trade marks.

Why run the risk of sowing unknown seed of doubtful purity and germination when you can procure such dependable seeds as these?

Following is a brief summary of what these three brands stand for:

Northrup, King & Co.'s Sterling Brand Seeds.

For those who want the best. Unexcelled for purity, germination, plumpness and color. Look for the Sterling trade mark.

Every bag of Grass or Clover seed put out by us under the name Sterling, will be sold only in our sealed bags—every package bearing our name, our trade mark, and sealed at the top with a metal seal. None other is genuine. As the contents of a bag cannot be identified once the seal is broken, purchasers should always insist on getting our original packages.

Northrup, King & Co.'s Northland Brand Seeds.

The greatest value for a reasonable price, of uniformly superior quality, carefully selected for high purity and strong germination. The Northland Goose is on every bag.

Northrup, King & Co.'s Viking Brand Seeds.

Lowest in price, consistent with dependable quality. Strictly recleaned and tested for purity and germination. Every bag branded with the Viking ship.

Our Prices. Please Read Carefully.

In order that you may have this catalogue as early as possible in the season we are preparing this part now, in December, before the market has been established on Grass and Clover seeds.

For this reason we are unable to quote prices on the following pages, but all items will be offered on our Red Figure Price List which will be included in this book at the time of mailing.

These prices are all subject to market changes so we have decided to issue throughout the season, as frequently as market conditions seem to render it desirable, a special Red Figure Price List, which will keep customers in touch with the actual value of seeds. We shall not scatter these special Red Figure Price Lists indiscriminately, but will promptly mail a copy of same upon receipt of a request for it, from those who wish to buy Grass and Clover seeds. Remember, a postal card will always bring one to you by return mail. Write us for it when you are ready to buy. These prices will be maintained as long as possible, but we reserve the right to forward seed to the value of the money sent us, according as the market is higher or lower. We wish to assure those who buy late in the season and have not time to write us for prices, that they will receive fair treatment at our hands, and unless otherwise advised we will reduce or add to the quantity ordered sufficient seed to give value for the amount of money remitted. We cannot emphasize the fact too strongly to those who do not wish to buy now, that it is to their advantage to write for our special Red Figure Price List, and samples of our Sterling brand of any variety of seed they want. A very large percentage of our customers now purchase our Sterling brands of Grass and Clover seeds exclusively, and will not have any other. They have found it to their interest to pay a little more for this brand and be absolutely assured that they are getting as fine seed as money can buy.

What the Microscope Reveals.

The photographs shown on this page are all magnified several diameters to more clearly demonstrate that which is not fully understood by those unfamiliar with the handling of Grass and Clover seed. The pictures numbered 1, 3, 5 and 7 are Northrup, King & Co.'s Sterling Brands of Medium Red Clover, Timothy, Alsike Clover and Montana Alfalfa respectively. It will be noted how pure and plump are these brands of seeds. On the other hand, the pictures numbered 2, 4, 6 and 8 are ordinary grades of seeds commonly offered on the market. The magnifying glass readily detects the weed seeds of all kinds, broken sticks and straws, immature, brown and shrunken seeds, dirt and refuse which are not only of no value, but prove of considerable loss and harm. These impurities pass by unnoticed until placed under the microscope. To avoid the sowing of doubtful quality seed on your land and to receive real value for your money, it is always good judgment to purchase one of our three reliable brands.

FACTS ABOUT CLOVER

The Northern States now produce the finest quality of Clover seed grown in the United States, and seed commanding the highest prices in the trade.

The Fertilizing Value of Clover. This plant is familiar to all farmers, in a general way, yet there are many things in regard to its habits, variations and other peculiarities yet to learn. The expression "To live in Clover" has become proverbial, and immediately suggests fat cattle standing knee deep in a rich Clover field. Someone calls the plant "The red plumed commander-in-chief of the manorial forces." Many authorities agree that "Clover is the best manure a farmer can use." It is practically "a trap for nitrogen," as it collects it from the air and supplies large quantities of nitrogen in a form ready to nourish growing crops.

"Clover hay or sod contains enough phosphoric acid for more than double an average crop, enough nitrogen for more than four average crops, and potash for more than six average crops of Wheat!"

A two ton crop of Clover, when plowed under, will supply more nitrogen to the soil than twenty tons of fresh, straw-made manure, or twelve tons of ordinary barn-yard manure.

Clover roots are stronger and more numerous, and more leaves fall on the ground, when it is grown for seed, than when it is mown for hay; in consequence more nitrogen is left after Clover seed than after hay, which accounts for Wheat yielding a larger crop after Clover seed than after hay.

Its Feeding Value. At the Wisconsin Experiment Station Red Clover has yielded the great amount of twenty-five tons of green forage per acre. From one-half to two-thirds of this yield may be relied upon by the stockman as a fair crop under average conditions.

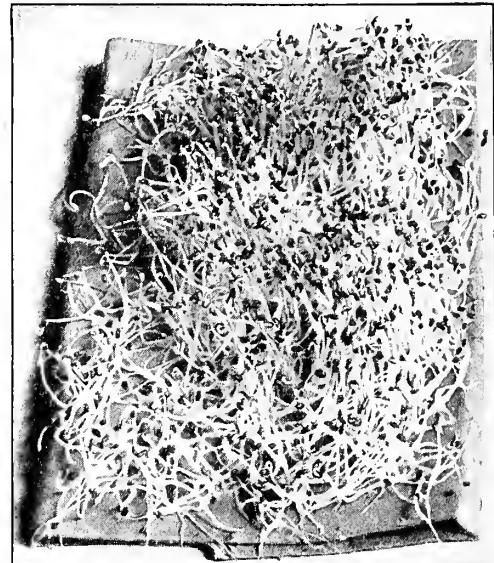
Clover gives the largest returns of protein, the flesh and blood building element in feeds, when the heads are in full bloom or just past that stage. Thus the crop would need to be cut when in full bloom to make the richest hay. It is true that Clover hay is easier to cure if not mown until the blossom heads are all brown, but such hay loses much of its feeding value. So, considering both factors it is best to cut Clover for hay when one-third of the heads are turning brown. Clover hay is exceedingly valuable for cows. It furnishes the large amount of protein and ash essential for milk and is palatable and much relished. With well-cured Clover hay forming one-half or two-thirds of the roughage of the ration, the dairyman can cut down the amount of grain, thus reducing the cost of feed.

Northern Grown Clover Seed. By using northern grown seed, Clovers may be established in sections where, until recently, it was not thought possible for them to survive. They are now grown even in North Dakota, close to the Canadian line. This means that the producing and sale value of these lands have increased many times. Northern grown seed is also more productive.

Some time ago, one of the most prominent seed dealers in Indiana (one of the largest Clover states) insisted upon buying a carload of our northern grown seed although we told him that we did not have enough for our regular trade. He finally said "I must have it. I have some customers who will buy nothing else." Then he described some of his own experiments in which he had discovered that northern grown seed gave over twice the yield of hay, that Indiana seed produced when grown in adjoining fields under the same conditions. His conclusion was, "If I were farming, I would not use any but northern seed if I could have other seed as a gift."

Our Clover Seed being grown in the North inherits three essentials for successful Clover production:

1. Earliness, because of the short season in which it matures.
2. Hardiness, because of the severe conditions which it survives—extreme cold of Winter alternate freezing and thawing of Spring and Fall.
3. Heavy yields, as has been demonstrated by comparative tests with Clover Seed grown elsewhere.



A Germination Test of our Clover Seed, 100 per cent.

About Quality of Clover Seed.

A large and increasing proportion of the orders we receive for Grass and Clover seeds is for our **Sterling Brand**, because of the fact that our customers have learned that the best seed is the most economical regardless of the cost. Seed cleaned for our Sterling Brand must in every instance, come up to a certain standard before it can be sold as Sterling and no seed will go out under that name that is not of absolutely known quality. Every year, however, there are some sorts which, owing to climatic conditions, are never produced of a quality sufficiently good even with proper cleaning, to equal Sterling. In such instances we offer our customers the very finest grade that the season has produced. We will cheerfully submit for comparison samples of all brands when desired.



A photograph of a northern Clover field. Note the heavy, even stand which northern grown Clover seed produces.

CLOVER SEED.

Prices. The Clover Seed market is so unsettled that we are listing no prices on Clover in our catalogue. For prices on all varieties, see our Red Figure Price List which is enclosed in this book. These lists are dated. As prices change frequently, a new Red Figure Price List with latest quotations will be mailed you free of charge, at any time, upon request.

Medium Red Clover. This is regarded as the most valuable of the Clover family. It is sometimes called June Clover and is a dependable all-round variety for farmers and stockmen. It makes two crops each year. The first is usually cut when it is in blossom for hay; the last crop may be harvested for seed, cut for hay, or plowed under to add fertility to the soil. It may be sown either in the Spring or Fall, and where no other grasses are used, at the rate of 10 to 12 pounds to the acre, according to quality of seed used and condition of the soil. Clover adds greatly to the fertility of the land on which it is grown. It does not exhaust the soil, but enriches it. It pays always to buy the best quality of Clover seed which can be obtained. Even though the first cost is twice as much as cheaper seed, it will be found in the long run that inferior seed is the most expensive, not only on account of less hay or seed being produced from it, but from the fact that one's land becomes infested with weed seeds which decrease the value of the land on which they are growing. Our Booklet on Clover contains information of value to every farmer. It will be sent without charge, upon request with orders.

It has been demonstrated time after time that crops following a growth of Clover are larger and of better quality than when grown on land which has produced the same crop for a series of years. Clover should be rotated with grain crops every three to five years. The small nodules or bacteria which cling to the rootlets possess the power to draw the nitrogen from the air and store it in the soil where it is most needed and where it can be drawn upon by subsequent crops. It is well to sow Clover with every crop of hay. It serves to keep the ground free from weeds, restores fertility, and may be pastured in the Fall, or will repay the grower even if put to no other use than to be plowed under as a green fertilizer. Sow 10 to 12 lbs. of Red Clover Seed per acre. For price, see our Red Figure Price List enclosed in this catalogue, or a new one will be mailed promptly on request.

Mammoth Red Clover. This is grown largely for pastures and to restore fertility to depleted soils. It makes good hay if cut soon enough although it has a coarser stem than the Medium Red Clover. Mammoth Red Clover supplies fine grazing for stock. It sometimes yields more seed than Medium Red Clover. Being a rank grower, it is very valuable for fertilizing purposes. The foliage, flower and stem are darker in color than the Medium Red Clover. It ripens later, and makes only one crop. Especially valuable on light, sandy lands. Eight pounds of Sterling brand seed are sufficient to sow an acre on good soil. For price see our Red Figure Price List.

Alsike or Swedish Clover. This is one of the hardiest varieties known. It is perennial and does not winter kill. It will do better on moist land than any other variety of Clover, and is suitable for either hay or pasture. When sown with other grasses, it forms a thick undergrowth and greatly increases the yield. It is frequently sown both with Medium Red Clover and with Timothy, and the quality of hay thus produced is excellent. It is fine-stemmed and leafy and thus is quickly cured. It makes a very profitable seed crop in many sections of the Northwest. Sow 8 to 10 lbs. per acre. For price see our Red Figure Price List.

For Alsike and Timothy Mixed see page 143.



Alsike Clover. Valuable for Both Pasture and Hay, Especially in Combination with Timothy.

White or Dutch Clover. A low, close growing Clover; round, white heads, very fragrant. Very desirable for beautifying the lawn. It will stand close cutting and very rapidly throws up an abundance of leaves and blossoms. It is usually better to sow with other grasses. Does well on most any soil. See our Red Figure Price List for prices.

Crimson or Scarlet Clover. An annual of strong, erect growth, one to two feet high. It roots deeply and places in the soil an abundant supply of nitrogen. Grows luxuriantly on fertile loam and does better, as a rule, on poor or thin soil than Red Clover. When plowed under it adds to the soil a large amount of humus or available plant food, thus enriching the land and preparing it for other crops. Sow 10 to 15 lbs. of seed per acre in the Spring. Adapted for states south of the Ohio River. See our Red Figure Price List for prices.

SWEET CLOVER.

Alfalfa's Twin Sister.

White Blossom or Bokhara. *Melilotus Alba.* This lives two years and then dies. It is the variety commonly referred to when "Sweet Clover" is mentioned and is the best for general use.

It is an erect branching biennial plant with woody stems, the first season growing 1½ to 3 feet high and developing a large root, in which is stored food material for the second season's growth. The growth the second season usually reaches a height of 4 to 7 feet. It bears flowers and seed the second season and then the plant dies, so it is readily controlled by cutting before it goes to seed, which will prevent any seed being self sown.

Culture. Sow the seed at the rate of 15 to 20 lbs. per acre, with a nurse crop of grain, or alone, in well prepared fields in April or May. Cover the seed very lightly. It may follow a cultivated crop by preparing the seedbed with surface-working implements. If the soil is plowed, this should be done several weeks before seeding. Sweet Clover requires a very firm, compact soil.

Sweet Clover is a legume having the same bacteria on its roots that grow on Alfalfa. Consequently it supplies nitrogen to the soil and prepares the way for Alfalfa.

Some authorities advise inoculating Sweet Clover just as you would Alfalfa, by using soil from land where Sweet Clover is growing, or by treating the seed with "Nitragin", (listed on page 141). By either method one can be sure of having plenty of the nitrogen germs in the soil which will tend to give the plants a good start. Wherever Sweet Clover grows wild, this is usually unnecessary.

Where to Plant. Sweet Clover is especially valuable for building up worn-out soils. It is not usually advisable to plant it where Red Clover or Alfalfa flourishes, as these crops are commonly more valuable to the grower. However, some farmers are planting Sweet Clover in preference to other crops for pasture.

It grows in a variety of soils—heavy, light, wet or dry, almost anywhere except in acid soil. But it does best on a firm, well drained soil which is rich in lime and delights in exposed subsoils and stony situations.

The Montana Experiment Station recommends it for improving Alkali soils. It is a splendid green manure crop for plowing under as it supplies so much humus and nitrogen to the soil. Growers report extra large yields of corn and other crops following Sweet Clover.

Hay and Pasture. From many states come glowing reports of the value of Sweet Clover for hay and pasture. After acquiring the taste, stock often prefer it to other pasture. A farmer near Minneapolis experiences great difficulty in keeping his cattle away from it, as they frequently break down the fence to feed upon the tender growth before it is ready to cut.

It is usually possible to get one cutting of Sweet Clover the first year and two good hay crops the second; or hay and pasture, or one hay crop and one seed crop. It is a splendid feed, about equal to Alfalfa.

Price subject to change, see our latest Red Figure Price List.

Yellow Blossom. *Melilotus Officinalis.* This variety belongs to the same family as White Blossom Sweet Clover but it is not so prolific in growth, will not produce so large a tonnage, does not grow quite so tall, but is from ten days to three weeks earlier.

The flowers are yellow instead of white. For bee pasture and fertilizing purposes, we believe it to be equally valuable, but for hay or pasture it is not so desirable. See our Red Figure Price List for prices.

"Nitragin" for inoculating Clover will be found on page 141.



White Blossom Sweet Clover. Note the Strong Crowns.

ALFALFA OR LUCERNE

See also pages 141 and 142.

FACTS ABOUT ALFALFA.

"There is no state in the Union in which Alfalfa cannot be successfully grown."

Alfalfa is more valuable than clover in many sections of the country, since wherever it flourishes it yields more per acre and is worth far more as a feed.

Alfalfa produces from 3 to 7 tons of hay to the acre.

It has as much protein as Wheat bran.

360 stalks have been grown from one seed.

It does not exhaust the soil, it enriches the soil.

It will grow 3 to 5 crops a year.

Alfalfa in money value is worth 45 per cent. more than other Clovers and 60 per cent. more than Timothy.

Ten milch cows can be fed on less than 2 acres by soiling.

One acre will pasture 20 pigs for 6 months.

Three pounds a day makes a full feed for fattening lambs.

Four to five pounds makes full feed for fattening aged sheep.

Thirty-five pounds makes full feed for fattening steers.

Sheep fed on Alfalfa will gain from 8 to 15 pounds in 75 days and will double with small grain ration added.

Lambs wintered on Alfalfa will produce one to two pounds more of wool than when on the ranch.

Fed to dairy cows Alfalfa maintains the flow of milk equal to June Grass. It can be chopped fine with corn meal. Such a mixture is worth more a pound than the original corn meal.

Many interesting facts in addition to the above might be cited about Alfalfa. It would hardly be possible to say too much about Alfalfa, it is a working plant which is changing the destiny of many farming sections.

"Its long, branching roots penetrate far down, push and crowd the earth this way and that, and thus constitute a gigantic subsoiler. These become an immense magazine of fertility. As soon as cut, they begin to decay and liberate the vast reservoir of fertilizing matter below the plow, to be drawn upon by other crops for years to come."

From its original home in Asia, Alfalfa has been carried to all parts of the world where agriculture is important. The name "Alfalfa" is Arabic for "the best fodder." It has been grown in the eastern states for 200 years and is now the staple, leguminous forage crop throughout the western half of our country. Alfalfa has been grown successfully in Minnesota for over fifty-five years. Descriptions of varieties suitable for this and other extreme climates are to be found on page 142.

Characteristics. One of the most important characteristics of Alfalfa is the long tap root, frequently extending fifteen or more feet into the soil. Unlike most farm crops, Alfalfa makes nearly all of its growth below ground the first season. The deep growing roots penetrate the sub-soils and bring to the top soil the phosphorus and potash stored below, making them available as plant food for the succeeding crop. After the great roots decay they form passages for air and water, besides leaving openings for the roots of the next crop.

As a soil builder, the Iowa Experiment Station claims that an acre of Alfalfa adds over twice as much nitrogen to the land as the average acre of Red Clover. Nitrogen is the most important element in the soil and the one most likely to give out. Alfalfa does not ask the farmer for nitrogen because it gets its nitrogen from the atmosphere.

Few general rules can be laid down for Alfalfa culture since different conditions require different methods. One must study the requirements of the plant and treat his land to meet these needs.

In order to find out in the shortest time what treatment any particular land needs, whenever doubt exists, it is well to plant quarter acre test plots, using lime on one plot, a liberal dressing of manure and lime on another, manure without lime on a third; no lime and no manure on the fourth, as a check on the first three. The method giving best results can be applied to a large acreage the succeeding season.

Where the preparation of the soil and time of seeding are important factors, the experiments can be made along these lines.

RULES FOR SUCCESS.

1. Plant in deep, loose, friable soil. If the soil is shallow the Alfalfa plant cannot utilize its deep-feeding root system and is likely to be choked out by surface-feeding weeds. The roots can, however, penetrate rather stiff, clay soils and sometimes go through hard-pan. Soils that are light on account of being sandy usually lack fertility, but this can often be corrected by the free use of manure. Good fields are sometimes found on heavy clay soils.

The seed bed should be fine on top, but well settled. It usually requires six weeks for plowed land to settle enough for seeding. The land should be disked and harrowed right after plowing. Then work it every ten days or two weeks until the seed is sown; this will insure sufficient moisture for germination. When late seeding is practised, begin to cultivate as soon as the preceding crop is removed.

For some soils disking is sufficient. This is of course less expensive than plowing and it does not take so much time for disked land to settle as it does for the plowed land. The preparation must be uniformly good, as the poorly prepared spots are sure to fail and become weed centers later. Summer fallowing is often practised in the semi-arid regions to conserve moisture for germination of seed at planting time and destroy weeds.

For sandy ground apply a light top dressing of straw or coarse manure just before seeding to prevent the soil from drifting, or sow the Alfalfa in a thin stand of small grain, such as barley.

2. The soil must be well drained. Alfalfa does not thrive where the water table is within six feet of the surface.

The land must be well drained, either naturally or by the use of tile or open ditches. Fine results have been obtained on drained bottom-lands. Land slightly rolling or nearly level and well drained is usually considered the best. Alfalfa is often killed by overflow from streams. During the growing period it will not usually stand more than twenty-four hours of complete submergence or forty-eight of partial overflow.

When sown on land with dry sub-soil, the roots penetrate for a few inches through the moist top soil and then reach the dry, hard sub-soil located perhaps at the bottom of the furrow slice. Being unable to penetrate this dry soil, the roots stop growing or run horizontally in the bottom of the furrow, thus forming only a shallow root system. To prevent this condition, either plow in the Autumn or else wait six weeks for the ground to settle before planting Alfalfa in the Spring.

3. The soil should be very fertile. Well rotted, barnyard manure is usually the most satisfactory fertilizer for Alfalfa. Fresh manure often contains weed seeds, so when its use is necessary it should be applied to the preceding crop so as to give the germinating weed seeds time to be destroyed by cultivation. Eight to ten tons of good manure per acre should be applied before plowing. Plowing under green manure crops helps to increase the humus content in the soil and this is what many soils require. For the Northwest, Red Clover is probably best for this purpose.

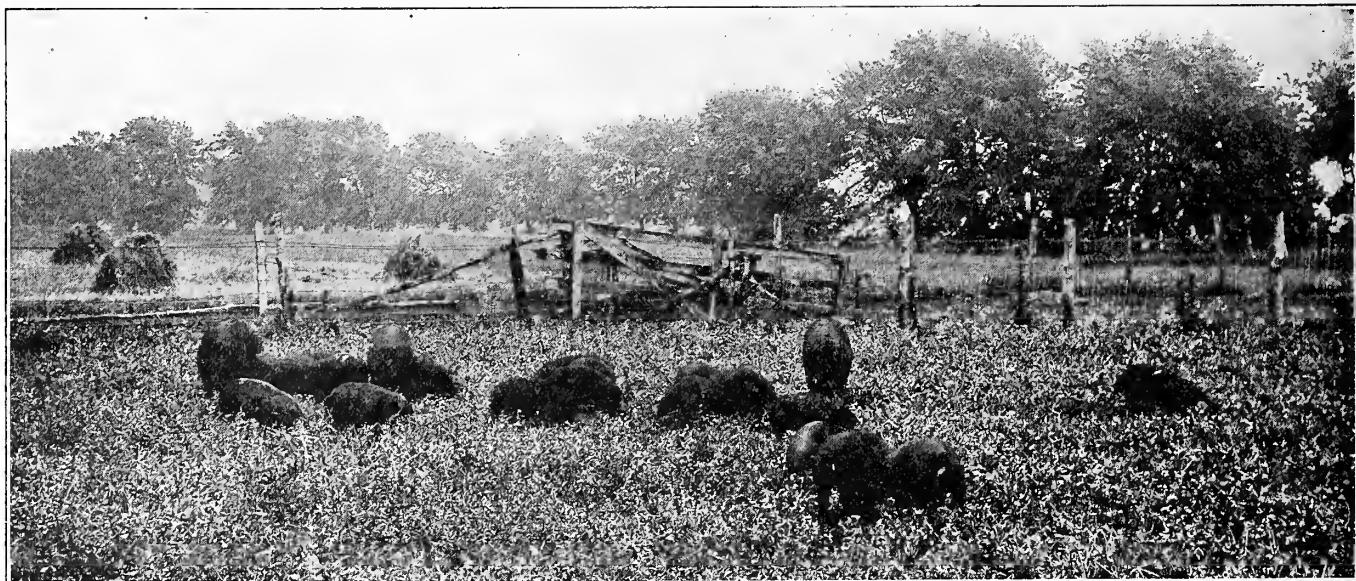
This should be followed with some clean-culture crop, like corn or potatoes. If barnyard manure is not available and if there is not time for a green manure crop, then apply commercial fertilizer if the soil lacks plant food.

Alfalfa when established is a very strong grower, but when the young plant starts it is a weakling and must have plenty of available food, in order to make a good growth the first year. Then it will develop a strong tap root which will help it winter well and start vigorously the following year.

4. Inoculation is necessary. Inoculation means putting or planting in the soil, nitrogen-fixing germs or bacteria without which the Alfalfa cannot flourish. Where Sweet Clover grows wild, in the field or along the roadside, artificial inoculation for Alfalfa may not be necessary as the same germs grow on the Sweet Clover as on Alfalfa and natural inoculation takes place. But there is no other plant which commonly grows wild in the North that can support the same germs as the Alfalfa. All the legumes including clover, peas and beans bear bacteria but a special kind lives on each plant.

These germs on the Alfalfa roots form nodules from the size of a pin head to a pea. See illustration of nodules on an Alfalfa root on the opposite page. Each nodule contains a colony of germs which keep taking nitrogen out of the air and forming nitrates. From nitrates the plant roots draw their nitrogen, since the plants cannot use nitrogen direct from the air except to a very limited extent. Thus the germs on the roots prepare plant food.

There are several methods of inoculating Alfalfa seed but we recommend the use of Nitragin as described on the opposite page.



Hogs in Alfalfa Pasture. An average field will support 10 large hogs during the growing season.

Another form of preparation is to sow a few pounds of Alfalfa seed on the field two or three years before it is intended to seed a regular Alfalfa crop, putting it in with grain, clover or any other seed used. If this is undesirable it often pays to plant a small amount of Alfalfa six months to a year before the regular crop. Probably the seed carries a few germs, and in time these plants will often develop nodules.

5. Use Lime for soil acidity. Alfalfa will not grow where the soil is acid. This is often the case where corn and wheat have been raised for many years. A simple test for acidity is to make a deep cut in the ground with knife, pressing the earth slightly apart, then push a piece of blue litmus paper (procureable at any drug store) into the opening, press the earth together and leave it for several hours. If the paper turns from blue to red it is proof of acidity. This test should be tried in several parts of the field.

Lime is the principal material needed to sweeten acid soils. It is also as necessary for plant growth as nitrogen or phosphorus. If agricultural lime does not cost over \$3.00 per ton it is better to use it than burned lime which is caustic. Up to two tons per acre of caustic lime, if well distributed, is safe to use. If ground limestone is applied, it should be very finely ground and spread at the rate of 1500 to 3000 pounds per acre.

Alfalfa requires for its best growth a large amount of calcium, the active part of lime. The nitrogen-gathering bacteria which live on the Alfalfa roots and furnish the plant with most of its nitrogen cannot live, thrive and multiply in an acid soil.

Lime is to be applied after plowing and thoroughly disked in, preferably some weeks in advance of seeding. It may be spread from a wagon with a shovel, or with a manure spreader or broadcast grain seeder. There is little danger of using too much lime.

6. The land must be free from weeds. Young Alfalfa plants are very tender and are likely to be killed by weeds during their early stages of growth. On this account the land should be as free from weeds as possible. Raising a cultivated crop or a crop like clover, which naturally prevents weed growth, will help to check weeds. If a weedy soil must be used, plow the land several months before seeding the Alfalfa and destroy the weeds as they appear by frequent harrowings. Weeds are especially harmful to spring-seeded Alfalfa, so for this reason spring seeding should be avoided in some sections.

The choice of a crop to precede Alfalfa depends upon the proper time for seeding Alfalfa. For example, early potatoes can be used before late summer seeding which would be impossible where early Alfalfa seeding is desirable.

7. Selection of seed is most important. Poor seed is a primary and great cause of a poor stand. In buying Alfalfa Seed the highest priced seed is often the cheapest. The loss is much greater in using seed of poor quality, than the difference in cost of the seed. This loss comes from the labor thrown away, the stands lost and yields sacrificed by its use, as well as the final expense in getting rid of the weed seeds introduced.

If seed germinates poorly, one must either plant more seed, or expect a thin stand. Small, shrunken seed will not produce vigorous plants. Weedy seed means the introduction into the field of plantain, dodder, thistle, mustard or some other pest, ready to take advantage of the fine fertile soil and undo the work of two years' preparation.

Our Sterling Brand Alfalfa is as plump and fine colored seed as grows. It



Nodules, or knots, formed by bacteria on Alfalfa roots.

is selected from the best seed produced and must comply with our standards of purity and germination. Send for sample for analysis and microscopic examination which will then prove its value.

8. Decide the best time of seeding for your locality. Sow Alfalfa Seed as far in advance as possible of what is likely to be the most trying season for the young plants. Early spring sowings usually give best results in the Northwest as the plants then become established before Winter. For this region therefore we advise sowing from early May to July. The Iowa Experiment Station recommends August sowing for that state, since weeds are the greatest danger there. Alfalfa must be well rooted and of considerable size before cold weather, otherwise it is likely to Winter kill in the absence of snow.

9. Sow the seed so it will be covered. Alfalfa Seed must be covered, not sown on the surface, as is sometimes done with grasses and clovers. It may be planted with drill or seed broadcast by hand, hand seeder or wheel barrow seeder. It is advisable to sow half the seed one way across the field and the other half at right angles to secure an even distribution.

Depth of planting depends upon the soil. Covering three quarters to one inch deep is usually sufficient on clay soils, but one and one-half inches deep is required on sandy soil, or in the semi-arid sections. When sown broadcast, a light harrow, weeder or brush is used to cover seed.

10. Use plenty of seed. Much more seed is required in the humid sections of the country than in the semi-arid and irrigated districts. Good stands from five pounds of seed per acre are not rare in the West. For the central and eastern states ten to twelve pounds per acre is the usual amount and this may be increased to twenty pounds if it is necessary for the Alfalfa to cover the ground from the start, to prevent weeds from becoming established. The quantity to sow will also depend upon the condition of the soil as to moisture, the weather conditions and seeding method employed. With land prepared by sowing a few pounds of seed six months to a year preceding, with a heavy application of stable manure plowed under six months before, perfect soil preparation, normal moisture, clean seed of high germination—10 pounds of seed per acre should be sufficient. Alfalfa is a desert-like plant and does best by itself. For this reason, where for any cause it is very hard to get a stand in the usual way, the seed may be sown in garden rows cultivated one season, and the plants transplanted the following Spring.

11. Using a nurse crop often advisable. Weeds are likely to prove troublesome for Spring seeded Alfalfa unless the ground is clean from previous cultivation. A nurse crop helps to check the weeds until the Alfalfa seed starts. The nurse crop takes some of the moisture and plant food from the Alfalfa and shades it. But it gives the advantage of planting the Alfalfa with little additional expense, except the cost of the seed. Moreover by this method it is not necessary to give up the use of the land for a whole season to get the Alfalfa established.

Barley, wheat or rye are better for a nurse crop than oats. Oats require more water and give too much shade. Do not sow Alfalfa seed with the grain, but plant each separately. Reduce from one-third to one-half the regular rate of grain seeding when using it for a nurse crop.

Our Alfalfa Booklet describes treatment after planting. See the next page for particulars.

THE IMPROVED GERMAN SOIL INOCULATOR
NOBBE-HILTNER PROCESS

NITRAGIN
TRADE MARK REGD. DEC. 6, 1898 NO. 3222
PURE CULTURE

THE SIMPLEST SAFEST AND SUREST SYSTEM
OF SOIL INOCULATION FOR ALL LEGUMES

AWARDED GOLD MEDAL, ST. LOUIS, 1904

Nitrogen gathered by the germs, or bacteria, is stored in knots, or nodules, on legume roots. Part is used by the growing crop, part goes to the soil to benefit succeeding crops. Experiments prove an inoculated legume crop returns to the soil an average per acre of 122 pounds nitrogen yearly.

Nitragin is the trade mark name for the special germ, or bacteria, that acts on the legume root, draws nitrogen from the air and converts it into plant food. It tends to give a uniform "catch": the crop grows quickly: it is strong, hardy and healthy—deep-rooted—rich in food value. Mean-while your soil is growing richer instead of poorer—your land more valuable. Failure with legumes is often due to a lack of bacteria.

Nitragin helps to insure a Catch of Alfalfa.

If your past experience with these profit crops has been unsatisfactory it may have been because your soil lacked these vital, strength-giving germs. Some soils have only a partial supply: in other soils the germ is missing or so sickly as to be worthless. Such soils need Nitragin Pure Culture to supply an abundance of pure healthy, strong, virile bacteria. This means a profitable crop and new life to the soil. Nitragin Pure Culture has been used abroad for seventeen years. Last year it was used on more than a million acres. This year you should use it on your Alfalfa and other legumes.

Nitragin solves the Alfalfa inoculation problem, helping to make legume growing more profitable. Successful inoculation depends in great measure upon the number of germs available. In mixing with seed some germs adhere to the floor or box; others are lost in transferring seeds to drill or seeder: others adhere to the drill-box; some are improperly planted and are killed by the sun: some are destroyed by other unfriendly germs that live in certain soils. So the extraordinary number of germs in Nitragin Pure Culture—infinitely more than in any other culture—provides for these losses and insures success, even under adverse conditions, where others fail. Each can of Nitragin contains billions of these necessary germs—in a strong, healthy condition, bred up to the highest possible state of efficiency, packed in ventilated cans—their health and vitality guaranteed for six months. Nitragin is easy to use. Simply mix with water and spread on the seed. As soon as seed is dry, plant as usual. A boy can do it—it's ten minutes work. Nitragin helps to obtain good catches—uniform, even stands; strong, healthy, deep rooted, sturdy plants that grow quickly and best withstand abnormal seasons and produce better crops—heavier yields of richer feeding value. Alfalfa, Clover, Soy Beans, Cow Peas—in fact, any seed legume can frequently be treated with Nitragin at a great profit. The cost is nominal. Dr. Lipman, of New Jersey Experiment Station, tried Nitragin Pure Culture; in Bulletin No. 226 he says: "Alfalfa yield increase due to Nitragin was 500 per cent."

Pure Culture System endorsed by many Authorities.

The Pure Culture system of inoculating legumes is endorsed and recommended by U. S. Government authorities, by state experiment stations, by practical farmers and other agricultural experts in every section. These men have accomplished wonderful results with inoculated legumes. You can do the same on your farm by using Nitragin.

There is a special strain for each legume, including Alfalfa, Red Clover, White Clover, Alsike Clover, Cow Peas, Soy Beans, Vetch, Garden Peas, Garden Beans, and all other legumes. In ordering be sure to name the crop to be inoculated.

Price. Garden size for peas, beans and sweet peas, per can, 30c. For field crops, $\frac{1}{2}$ -acre size can, 50c; acre size can, \$1.00; 5 acre size can, \$4.00, F. O. B. Minneapolis. Postage and express extra. Parcel Post, 10c per acre extra. Order Nitragin Pure Culture with your seed.



ALFALFA SEED

Sow 10 to 12 Pounds per Acre.

All prices on grass and field seeds are subject to market changes.

Latest Red Figure Price List will be mailed promptly upon request.

Northrup, King & Co.'s Sterling American



Grown Alfalfa. For our Sterling Brand Alfalfa we obtain as plump and fine colored seed as grows. This seed is selected from the best seed produced. We will be glad to send a sample to any one about to purchase. When writing for sample, state quantity of seed you wish to buy, 10 to 12 lbs. are usually sown to the acre. The demand for Alfalfa has been increasing from year to year. It is desirable, therefore, that orders be sent in promptly. Values on all grades will be found on our Red Figure Price List which is issued from time to time during the season and will be mailed promptly to any address on request.

Northrup, King & Co.'s Sterling Brand. } Prices on all brands of Alfalfa
Northrup, King & Co.'s Northland Brand. } on Red Figure
Northrup, King & Co.'s Viking Brand. } Price List.

Northrup, King & Co.'s Sterling Dakota



Grown Alfalfa. Experiment stations and other authorities all agree as to the advantages of northern grown Alfalfa seed. Even when the seed originally sown was not especially cold-resistant the more tender plants are soon eliminated, leaving the harder plants to produce seed. Seed from such fields is always preferable for northern planting to seed produced farther south.

Our Sterling Dakota Grown Alfalfa is especially recommended for northern planting. This seed comes from long established fields. It is splendid, plump and fine colored. Our seed was grown at an altitude of between three and four thousand feet, where the rainfall rarely exceeds eight inches per annum. The temperature reaches both extremes, exceedingly hot and dry in Summer and down to 30 to 40 degrees below zero in Winter, with little or no protection by snow. Plants which survive these rigid tests are very hardy plants and the seed produced from these fields inherits the vigorous tendencies of the parent plants.

Northrup, King & Co.'s Sterling Brand. } Prices on all brands of Alfalfa
Northrup, King & Co.'s Northland Brand. } on Red Figure
Northrup, King & Co.'s Viking Brand. } Price List.

Northrup, King & Co.'s Sterling Montana



Grown Alfalfa. Montana produces a very fine grade of Alfalfa. The seed is usually exceptionally large and of high germination. Montana grown Alfalfa is extremely hardy and some prefer it to seed from any other locality. Our seed is obtained in those sections where plants have endured the extreme cold of Winter and thrive in high altitudes.

Not only has our experience of several seasons demonstrated the superiority of this seed under adverse climatic conditions throughout the entire Northwest, but more recent experiments of both the Minnesota and North Dakota Agricultural Stations have established the superior hardiness of Montana grown Alfalfa.

Northrup, King & Co.'s Sterling Brand. } Prices on all brands of Alfalfa
Northrup, King & Co.'s Northland Brand. } on Red Figure
Northrup, King & Co.'s Viking Brand. } Price List.

Alfalfa Booklet. This booklet is sent to our customers without charge if asked for on orders. It contains information of importance to Alfalfa growers everywhere and will help you succeed with this crop. It gives the best methods of preparing the land, seeding, inoculating and caring for the crop, based on the experiences of successful growers in the Northwest.

Liscom Alfalfa. This variety is similar to Grimm in many characteristics. The first seed came from Central Europe about 35 years ago; it was sown in Montana where the original field is still in existence and bearing fine crops. Liscom shows a variation in the color of the flowers and frequently has a branching root stock.

Our seed of this variety was obtained from a field 25 years old, in the county adjoining Custer, where the original field is located. The seed we offer is especially adapted for sowing in the Northwest. It comes from plants that have withstood both extremes of temperature, 40 degrees below zero without any covering of snow and 114 degrees above. It is probably as hardy as any Alfalfa available, seldom winter kills, and is a great drought resister. Liscom Alfalfa yields splendid crops and the price is reasonable. See latest Red Figure Price List.

Dry Land Alfalfa. The extension of Alfalfa growing into the regions of limited rainfall has created a demand for Alfalfa seed especially adapted to those conditions. Seed which has been produced from Alfalfa grown on dry land and without irrigation is of course much preferable for dry land culture to seed produced under irrigation or normal rainfall. It is not always possible to obtain seed grown under these conditions, but we have succeeded in purchasing a limited amount of fine seed which is offered only until our stock is exhausted. The Alfalfa we offer as Dry Land is all its name implies. It was grown under severe conditions of low temperature in Winter, usually with little or no covering of snow, and hot weather in the Summer.

In case we do not have Dry Land Alfalfa when your order is received, we suggest that you state on your order the variety we may substitute in its place to the value of the money you send us; or, in the absence of these instructions, we will promptly refund your money if we do not have what is wanted. We never substitute without the consent of the purchaser. Price quoted on Red Figure Price List. Please advise number of acres you intend to sow.

Turkestan Alfalfa. This variety has been satisfactory in many sections and has become quite popular. In consequence over six million pounds of Turkestan Alfalfa seed are imported annually to the United States. This seed is grown on the high table lands of central Asia where the days are hot and the nights cold. It has been successfully grown for years in this country. The Minnesota Experiment Station reports that Turkestan Alfalfa has given good results in Minnesota. A successful Alfalfa grower has had years of experience in raising Alfalfa near Minneapolis where a temperature of 20 to 30 degrees below zero almost every Winter tests the hardiness and vigor of all plant life. Not only low temperatures, but dry winds and little snow protection make winter conditions even more severe here. This grower reports great success with Turkestan Alfalfa and usually secures three cuttings of hay annually after his Alfalfa fields become established. Price quoted on Red Figure Price List. Please advise number of acres you intend to sow.

Grimm Alfalfa. Many years ago a man named Grimm came from Germany and settled near Minneapolis. He brought with him seed of an Alfalfa, which according to a neighborhood statement, he called Norwegian Alfalfa. It became known, however, as Grimm's Alfalfa and obtained a more than local reputation on account of its productiveness and extra hardiness, for it survived Winters that killed out many fields of other varieties of Alfalfa. Of course this was before the Montana, Dakota or any other northern grown Alfalfa seed was procurable.

Small patches of Grimm Alfalfa are grown in the Black Hills of South Dakota, among the mountains of Montana, Idaho and Oregon. From some of these we secure limited amounts of fine Grimm Alfalfa seed. For prices see Red Figure Price List.

Nitragin. This is a splendid preparation of Alfalfa bacteria for inoculating the seed before sowing. It is sold ready for use. See page 141.



Alfalfa Hay in the cock. Land values are sure to increase, where three crops like this are cut each year.

TIMOTHY SEED.



Timothy is the best known, most extensively sown and one of the most profitable grasses grown in this country. Having a large bulk of stems, with few leaves, the hay wastes little in transportation. The grass stands up well, the hay is easily cured and heavy for its bulk.

Timothy is very easily established, the seed is inexpensive, and easily sown. It starts rapidly and often yields its best crop the year after sowing. It is extremely hardy, enduring extremes of heat and cold. It does best on moist, clay soils.

Characteristics. This grass has shallow, fibrous roots, growing in stools and never forming a compact sod. Timothy increases by multiplication of bulbs, just as some onions do. These bulbs, at the base of the stalk, store food for future plant growth. As the plant ripens, nourishment is stored in these bulbs as well as in the seeds. If Timothy is cut too early, the bulbs are weakened and the stand decreases. These bulbs also increase and store up nourishment in the Fall while the aftermath is growing; therefore it is likely to injure the meadow seriously if it is pastured in the Fall. It should never be pastured unless the aftermath is unusually heavy due to a wet Fall.

Timothy rapidly exhausts the soil nitrogen and so the meadows are greatly improved by a dressing of stable manure or other fertilizer. The latter should contain a large well with Timothy and aid it by supplying nitrogen. Medium Red Clover makes a good combination with it and together they form the standard crop for mowing and pasture lands on the majority of farms in the northern and middle states. For a mixture of Timothy and Alsike, see below.

Timothy is useful for seeding mountain pastures on ranges in moist areas. It is not suited for a permanent pasture as it will run out in the course of a few years. It is, however, well adapted to early Spring grazing as it starts up quickly in the Spring before Blue Grass. The largest crops of hay are raised on rich land. It is not suited for light, sandy soils so well as other grasses.

Harvesting. Timothy hay has a higher feeding value when it is cut early. There is usually a large shrinkage when it is cut before blooming. Consequently, it is best to cut it while in bloom or very soon afterwards. The usual yield is one and one-half to three tons per acre.

Seed Selection. The most important point in the growing of Timothy is the selection of good seed. Poor seed, besides containing weed seed will not all grow. That which does germinate is weak and produces few stalks and seed heads. It should not take an intelligent farmer long to figure the wisdom of investing his time and money in reliable seed, and that means Northrup, King & Co.'s "Sterling" Brand. Only ten pounds of this brand required to the acre when sown alone.

Prices. Owing to the unsettled conditions of the market we are not quoting the price of Timothy in this catalogue. For prices see our Red Figure Price List which is enclosed in this book. These lists are dated. As prices change frequently, a new Red Figure Price List with latest quotations will be mailed you free of charge, promptly upon request.

ALSIKE CLOVER and TIMOTHY MIXED.

Where Alsike Clover and Timothy are grown together, and the seed is saved therefrom, it is impossible, in cleaning, to make a complete separation of the two.

On this account we purchase the seed for less money and we can sell it for less than would be the case if a perfect separation could be made.

Those desiring to sow Alsike and Timothy together can save considerable money by buying the seed of these two varieties together as originally harvested.

The Minnesota Experiment Station recommends using Alsike in all Timothy and Medium Red Clover mixtures. The Alsike tends to increase the forage crop and in addition will replace the Red Clover as the latter begins to die out, since the Alsike is a hardy perennial and does not easily winter kill. Alsike and Timothy hay is much richer in feeding value than Timothy alone and will flourish on soils too moist for clover. Alsike is suitable for either hay or pasture. It is finer and more leafy than Medium Red Clover and cattle prefer it. Sow 12 to 15 lbs. of the mixture per acre. For prices see our last Red Figure Price List.

Of Special Interest to Buyers of Timothy Seed.

The importance of sowing Northern grown Timothy seed of high purity and strong germination should not be underestimated.

For many years we have made a specialty of Timothy Seed produced in the North. Our buyers select only the brightest, cleanest and best appearing lots. By using the latest, improved cleaning machinery, we have carefully removed dirt, weed seeds and other impurities.

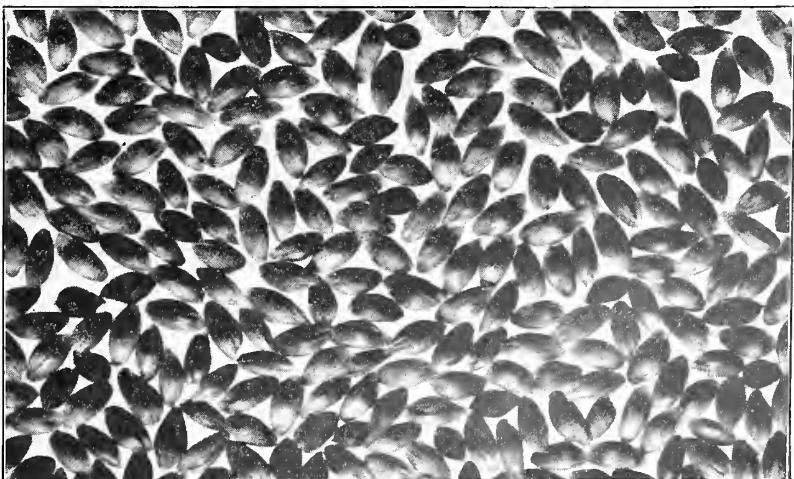
A description of our three brands will be found on page 137.

These standards are constantly maintained so purchasers can always be sure of obtaining seed of high quality adapted to Northern conditions.

Meadows, Pastures and Soiling Crops, a new and valuable booklet, gives much useful information about these subjects. A copy will be sent free with orders, upon request.

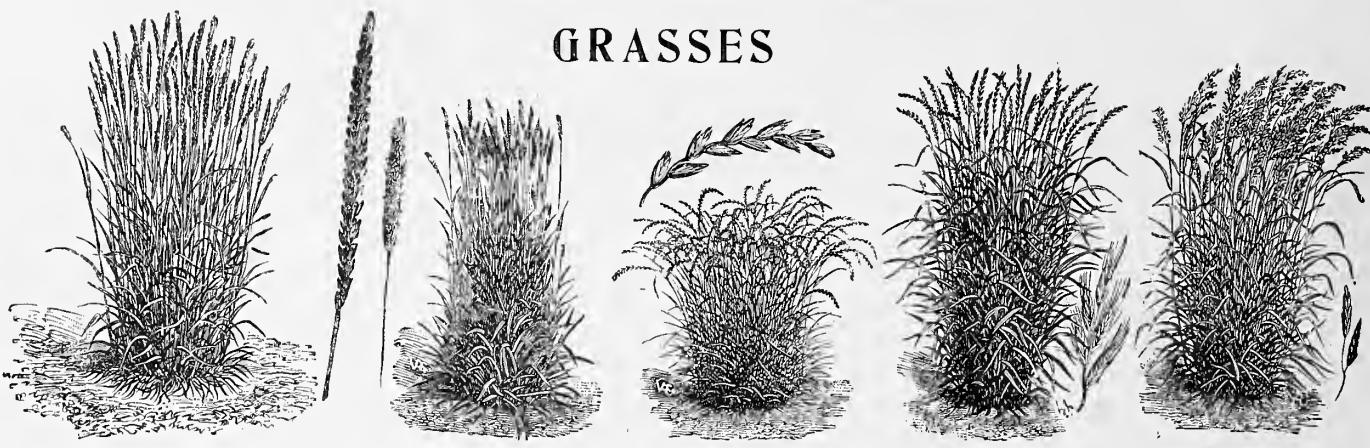


Typical heads from Northrup, King & Co.'s "Sterling" Brand Timothy.



Photograph of Northrup, King & Co.'s "Sterling" Brand Timothy Seed enlarged twenty times. Note the purity, plumpness and freedom from foul seed.

GRASSES



Crested Dogtail.

Meadow Foxtail.

English Rye Grass.

Italian Rye Grass.

Meadow Fescue.

Prices.

For prices of all Grasses see our Red Figure Price List which is enclosed in this book. Prices on field and grass seeds subject to market changes. A new price list will be sent free any time on request.

Some of the varieties listed below are very short this season so we suggest that you order early to avoid disappointment.

Creeping Bent Grass. (*Agrostis Stolonifera*) Distinctive, on account of its compact, creeping, rooting stems. Of rapid growth and spreading habit, forming a strong, durable turf. Good for lawns and putting greens because of its fine texture. If sown alone, use 50 lbs. to the acre. We do not expect to have any seed of this variety to offer this season.

Crested Dogtail. (*Cynosurus Cristatus*) A hardy grass forming a smooth, compact and lasting turf. Does best on rich, moist land, but will grow on most any soil. Roots deeply and withstands dry weather. Does well in the shade. If sown alone, use 30 pounds to the acre, but the best way is to mix with other grasses.

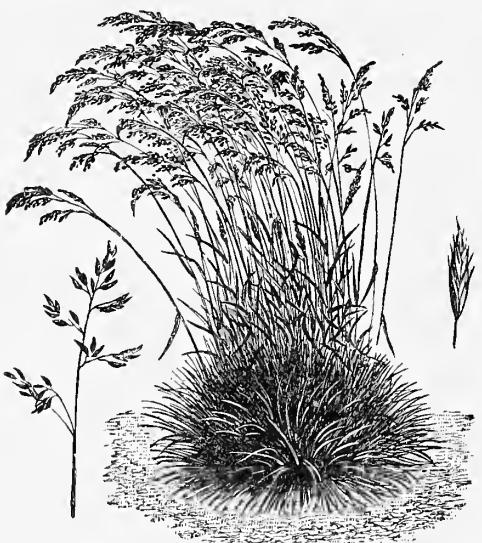
English or Perennial Rye Grass. (*Lolium Perenne*) well known in this country as a valuable pasture grass which will bear frequent close cropping. Produces an abundance of foliage, which remains bright and green during the season. The hay is relished by all kinds of stock. It will grow well on almost any land but does better on such land as will produce a good corn crop. The plants start early, flower early and repeatedly during the growing season. The leaves are abundant and the whole plant is nutritious.

Fine-Leaved Sheep's Fescue. (*Festuca Ovina Tenuifolia*) A very fine-leaved grass. Thrives well on dry and sterile soils. Well suited for lawns. 30 lbs. per acre.

Hard Fescue. (*Festuca Duriuscula*) A valuable grass for dry lands and sandy soils, very hardy, enduring extremes of heat and cold and long droughts. Splendid for permanent pastures on poor land. Not recommended for lawns on account of its stooling habit. Sow 30 lbs. to the acre.

Italian Rye Grass. (*Lolium Italicum*) This is, like the Perennial Rye Grass, valuable for pasture and also for hay. It thrives on rich, moist land, where from three to four cuttings may be made in a season. It grows very quickly and will stand close pasturage. About 24 lbs. of seed required to the acre.

Meadows, Pastures and Soiling Crops. This is the title of a new booklet which we have issued giving valuable information about these crops. It will be sent free with orders or for 10c, postpaid.



Hard Fescue.

Meadow Foxtail. (*Alopecurus Pratensis*)

One of the best grasses for permanent pasture, early and of rapid growth. Sow 30 lbs. per acre.

Orchard Grass. (*Dactylis Glomerata*) A valuable grass for pasture or hay land, and on account of its earliness is very valuable for a permanent pasture. It furnishes the first green grass in the Spring and until late in the Fall. When closely cropped it grows up very quickly and is ready for grazing again in 10 to 12 days. It will stand drought and is hardy. It grows in tufts, and is therefore best sown with Red Clovers, rye grass, etc. It is well suited for shady places, such as orchards and groves. Grows on all kinds of land but does best on deep, rich sandy loam or clay soils. Sow 22 lbs. to the acre.

Red or Creeping Fescue.

(*Festuca Rubra*) A creeping-rooted variety forming a close and durable turf and particularly suited for dry, sandy soils. Resists drought and thrives on very poor soils, gravelly banks and exposed hillsides. Valuable both for shady lawns and for golf courses. 30 lbs. to the acre.

Culture.

Sow grasses as early in the Spring as possible or if in the Autumn, not later than September first. An inch of soil is usually sufficient covering for all grass seeds except in light sandy soils.



Wood Meadow Grass.



Cutting Bromus Inermis for Hay and for Seed.

BROMUS INERMIS. (Awnless Brome Grass.)

This is a native of the Russian Steppes and thus is suited to a cold climate and dry soil. It is strongly recommended by the Kansas, Nebraska and North Dakota Experiment Stations. It is good for pasture, and in some places for meadow—where the conditions are favorable. Brome Grass makes a dense growth of leaves which start down close to the ground. Animals like it well for pasture.

Sheep and cattle like it the best of any grass. Brome Grass thickens up rapidly by underground roots or stems. A thin stand thus improves quickly. It forms a dense sod six to eight inches thick, thus binding the soil together and preventing it from being wind blown. It is one of the deepest rooted of cultivated grasses. The stems grow erect, attaining a height of four feet or more.

It is drought defying, frost resisting. Yields enormous crops of splendid hay. It adapts itself to almost every condition of soil and climate and to any use to which grass may be put, equaling in quality and rivaling in yield almost any other grass. The roots push through the soil and form fresh plants on every side. It starts from two to three weeks earlier in the Spring than native prairie grass and it keeps green in the Autumn longer than any of the useful grasses grown in the West. No amount of cold seems to be able to kill it. It bears up well under hot summer suns. It will grow under conditions that are very dry, and it can also stand being covered with water, not deep of course, for one or two weeks in the early Spring. It is an abundant producer of leaves and is much relished as pasture and hay. It is about equally nutritious with Timothy. To the country west of the Minnesota border it is probably the greatest boon that has come to it since buffalo grass began to grow. The worth of this grass to the Dakotas and Minnesota is beyond all estimate.

Culture. It does best on rich soil and lasts longer when Clover or Alfalfa is sown with it. The Clover or Alfalfa will then keep supplying nitrogen to the soil and thus help to nourish the Brome Grass, which would otherwise soon exhaust the soil's nitrogen. If sown with a nurse crop that crop should be sown thinly. 20 pounds of good Bromus Inermis an acre are sufficient. It grows slowly for a time, hence the farmer should not be hasty in concluding that he has failed to get a stand of the grass.

The Nebraska Experiment Station recommends sowing the seed as deep as Oats, since shallow seeding often causes failure. If plenty of moisture is present in the soil it should be sown in the Fall, otherwise Spring is better. It is sometimes sown with Winter Wheat. In places where it is inadvisable to plow on account of drifting sands, it is well to open the ground with a spade and deposit seed to secure a stand for improving range conditions. It is recommended to sow with Alfalfa where the latter is to be used for pasture. For prices on all brands see our Red Figure Price List enclosed herewith.

CANADIAN BLUE GRASS. (Poa Compressa.)

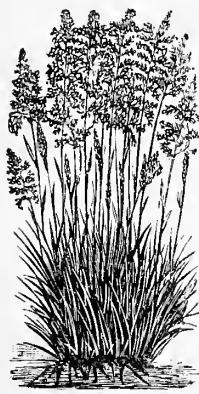
Resembles somewhat the Kentucky Blue Grass, but is shorter and more slender. It is grown very extensively in Canada and some parts of the United States. It will thrive even on hard clay soils, where there is not quite enough lime and fertility for Kentucky Blue Grass. It holds its color and freshness until snow comes. Canadian Blue Grass does not thrive when planted with Clover. Red Top and Orchard Grass are the best for mixing with it to grow on inferior soils. On good land it becomes tall enough for hay and as it shrinks very little in drying, the hay is heavy for its bulk. Grows from one to two feet high. Sow 30 lbs. of seed to the acre. See Red Figure Price List for current values.

KENTUCKY BLUE GRASS. (Poa Pratensis.)

This makes the best, sweetest and most nutritious pasture for all stock. It is the first to start up in the Spring and remains green until snow flies in the Fall. It is very hardy and is uninjured by cold or dry weather, hot sun or tramping of hoofs. The roots are so thick and stout that they form a tough sod. Blue Grass requires about two years to get well started and for that reason it is often sown in mixture with other grasses. It will do well on almost any land. Sometimes called "June Grass."

Kentucky Blue Grass does best on well drained, clay soils. It is well adapted to open woodlands. As a pasture it is better liked than any other grass except Bromus or Meadow Fescue. It may continue to improve for ten to fifteen years as the plants spread with their underground root stalks. It is best sown with a mixture of Clover, Timothy, Meadow Fescue and Bromus, which will later be supplanted by the Blue Grass. It is not advisable to turn animals on to a Blue Grass pasture before the grass is strong. During hot weather do not let them graze it very close. Sow 20 to 25 pounds of "Sterling Brand" seed to the acre when sown alone.

We wish to call particular attention to the cleanliness of our Sterling Brand Blue Grass. As usually sold by dealers Blue Grass weighs 19 to 20 lbs. to the measured bushel. Our Sterling Brand seed is so thoroughly recleaned that a measured bushel weighs 28 to 30 lbs. We sell Kentucky Blue Grass at the lawful weight of 14 lbs. to the bushel.



Kentucky Blue Grass.

The prices on all grass and field seeds are subject to market changes. Our latest Red Figure Price List will be sent any time upon request.

RED TOP (SOLID SEED.) (Agrostis Vulgaris.)

The place for Red Top is on rather moist soil, deficient in lime and fertility. It will grow where the soil is too poor for Timothy and Kentucky Blue Grass. It is a good variety to sow with Timothy and Clover for meadow or pasture and is more permanent than either of the other two. It should be fed close, for if it is allowed to grow up to seed, the cattle dislike it. On good soil it grows about two feet high; on poor, gravelly land about half that height. It has been grown successfully even on alkali land where other grasses failed. Red Top, commonly known as Herd's Grass, should be extensively grown, especially with other grasses.

Red Top has interlacing, thick roots which make a firm sward not likely to suffer injury from the hoofs of animals. It stands the effect of drought better than Timothy. It is more permanent if it is grazed off and not allowed to go to seed. For the best quality of hay, it should be cut when in full flower. It is more easily cured than almost any other grass.

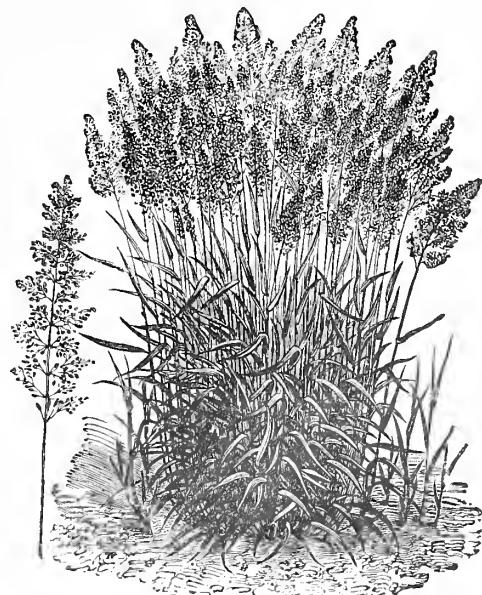
As a hay crop, Red Top is next to Timothy in importance among grasses in this country. It grows two feet or more high and yields one to two tons per acre. It increases in thickness for several years after sowing and is one of the most permanent of cultivated grasses. Red Top weighs 14 pounds to the bushel. Only ten pounds of "Sterling" Brand required to the acre. See Red Figure Price List, for values of all brands of Red Top.

WESTERN RYE GRASS. (Agropyrum Tenerum.)

Sometimes called Slender Wheat Grass, the famous bunch grass of the Canadian Northwest.

It affords excellent pasture and provides large quantities of hay, but if wanted for hay, should be cut early, as it is relished better by stock. It thrives on all soils, but is peculiarly adapted to prairie soils. It gives good returns on land quite strongly impregnated with alkali and fits it so that grain may be grown successfully.

The seed being quite heavy, may be sown with any ordinary grain seeder. When sown alone as is the common practice, the seed should be put in from 1 to 3 inches deep according to soil and season, 15 pounds to the acre. If with Bromus Inermis, 7½ lbs. of each. For prices see Red Figure Price List.



Red Top.

Northrup, King & Co.'s Sterling Brand. | Prices on any or all brands of
Northrup, King & Co.'s Northland Brand. | Kentucky Blue Grass on
Northrup, King & Co.'s Viking Brand. | Red Figure Price List.

MILLET

The varieties of Millet are among the oldest of cultivated grains. A large part of the world's inhabitants subsist upon the different Millets, especially in Africa, Turkey, Persia, India and Japan. However in our country we are chiefly interested in the use of Millet as a stock food.

Millets are especially adapted to regions of light rainfall and hot weather. They are used principally for forage, being very valuable where Timothy is an uncertain crop. The hay is fed most satisfactorily to dairy cows and sheep. In feeding value it ranks well above Timothy.

Culture. Millet does best on rich soils, full of humus, or vegetable matter, where the seed bed is fine and well prepared. It is not suitable for stiff clay or cloddy soils, which would cost too much to prepare for this crop. When sown in hot weather Millet is especially good to subdue weeds.

It is also used as a catch crop after early grain or a crop which fails. In a dry district the ground is better if it is double-disked without plowing, after which it should be harrowed and the Millet drilled in; or if the soil has been unplowed for a long period, it may be plowed after the double-disking. Summer fallow or land plowed late the previous Fall, is of course, likely to be in excellent condition for Millet and will only require to be lightly disked and harrowed before drilling.

Millets are sown about the same time that Corn is planted but may be sown somewhat later if they are to be grown for hay or soiling. They should never be sown until continued warm weather is certain. None of the small



A

Field of German Millet.

This Field was Grown
from True Southern Grown
Seed. Note the Heavy Growth.

seed varieties should be sown deeper than three-quarters of an inch if the ground is moist. The seed may be sown broadcast, or preferably with a narrow tread drill. Sow about 25 lbs. of seed per acre for hay and slightly less than that for seed. Moist clay soil requires more seed than light sandy soils since the seed does not germinate so well. The best seed is produced from Millet sown thinly in drills and cultivated between the rows. Millet should never be sown until the earth is warm in the Spring and when continued warm weather is assured.

Millet is one of the best crops for immediate planting on new land on first breaking. Unless the sod is very stiff the crop can be sown soon after the former is turned over.

Cutting for green food may begin as soon as any large number of heads appear and may continue until the crop is ready to make into hay. The best hay is obtained by cutting just as the Millet starts to head nicely, say when one-quarter to one-half the heads are out. If German Millet or other Millets grown for hay are cut too early they lack "body," that is, weight and full feeding value. If cut too late, the stems become woody, the seeds shatter and the hay is sometimes dangerous to feed. If the seeds are ripe it may cause kidney trouble in feeding any animals but sheep. A tedder can be very profitably used in curing the hay. It should be well dried before putting into mow. If allowed to stand in the field cock for sometime, it should be opened up to the sun before hauling into the barn. When Millet is grown for seed, it may be harvested and handled like any grain.

In all cases of harvesting for the seed, Millet is best handled if cut and bound with a binder. The bundles should be placed two by two in narrow shocks. Even when intended for hay, many of the Millets can be cut with the binder in dry weather. Ordinarily, however, harvesting for forage is best done with the mower or self-rake, leaving the Millet to cure dry in the swath or bunches, after which it is cured in cocks before stacking or housing.

INFORMATION ABOUT FOUR LEADING VARIETIES

See Opposite Page for Additional Descriptions.

German Millet.

The stems are single or few in number from each root, they grow large and stout, unbranching. The leaves are rather short, broad and stiff, the heads are often an inch in diameter and 6 to 8 inches long. The seeds are small, of a golden or yellow color. The illustration at the top of this page shows a good stand of German Millet. This will give a very heavy tonnage of first class feed. With thin seeding the stems become coarse and reed-like, therefore we recommend using a liberal quantity of seed.

Hungarian Millet.

This is commonly known as "Hungarian Grass." Each root sends up several slender stems which often branch. The leaves grow upright, rather narrow. Heads are borne erect or nearly so, about four inches long, dark purple in color, bristly and very compact. The seeds are brownish black mixed with yellow. This variety withstands drought remarkably well. If its growth is checked by dry weather the least rain will restore its vigor. It flourishes in light, dry soils but does best in good soils, well manured. This gives a very fine quality of hay on account of its slender, leafy growth.

Japanese Millet.

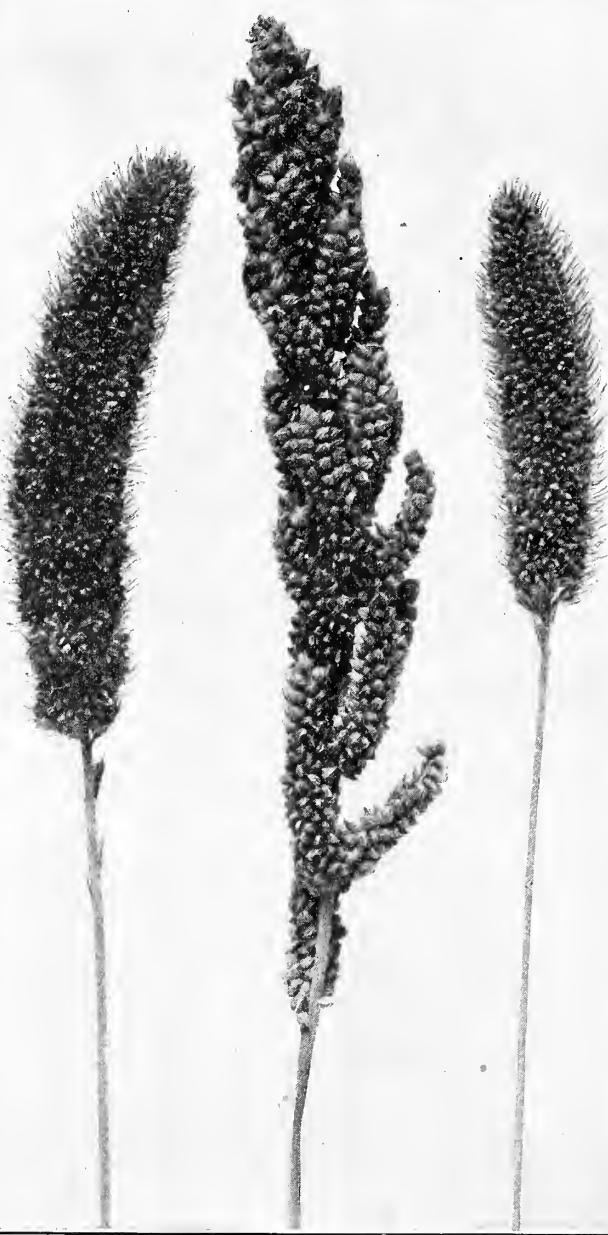
This has been incorrectly called "Billion Dollar Grass." It is highly recommended for feeding dairy cattle, young stock and sheep. "At the Massachusetts Station Prof. Brooks grew crops in which the plants reached a height of six feet, yielding from twelve to eighteen tons of green forage per acre. Millet forage was much relished by dairy cows, proving superior to flint corn fodder," says Prof. Henry of the Wisconsin Experiment Station in his book, "Feeds and Feeding."

Japanese Millet stools freely and yields enormous crops. Its leafage is heavy and heads very compact. This variety does best on moist, rich low-lands as it does not endure drought well.

Our illustration shows the type of the Japanese Millet head, with its many small branches. The seed is bright gray with a polished appearance when removed from the hulls, which are dark brown and rough.

Siberian Millet.

Siberian Millet is considered one of the best varieties for the Great Northwest. It is often grown in sections where the season is too short to mature a Corn crop, and in other places has proven a very valuable cover crop. Probably no variety of Millet is superior to Siberian for hay, the joints being so close together that the plants bear a great quantity of leaf blades. It also yields a heavy crop of seed under favorable conditions. This variety is extremely drought resistant. As shown in our illustration, the heads of Siberian Millet are smaller than those of some other varieties but they show the characteristic type of the family. It is owing to the great stooling habit of this variety that it is such a heavy yielder. The seed is a reddish yellow color. We have choice, dependable seed to offer this season. Write for samples. For prices on all varieties see our Red Figure Price List.



Three Desirable Varieties of Millets.

Hungarian,

Japanese,

Siberian.

MILLET

For Prices on all Millets see our Red Figure Price List which is enclosed in this book. These lists are issued frequently throughout the season as changes in price make it necessary. Sent free upon request.

German Millet. (True Southern Grown Seed.) In the North, Millet is sown almost altogether for hay, and for that purpose Southern grown seed is much the best. It grows taller than does that from Northern seed, and that means more hay. It is finer than that from Northern seed, and that means better hay. In fact, it is our judgment, based on an experience of many years that a farmer had better, from the stand-point of profit alone, pay \$2.50 a bushel for true Southern grown German Millet than to sow the best Northern Millet as a gift. Millet seed produced in the North, even from Southern seed, becomes what we call Common Millet. Not only does the plant change in character becoming coarser and much more dwarf, but the seed itself shows a change, and is readily distinguished by those experienced in handling it.

We wish to say that any Millet seed offered and shipped by us as German Millet is true Southern Grown Seed, and that only.

German Millet is very sweet, palatable, and when fed to dairy cows produces a large amount of milk. On good rich soil it grows four to five feet high. It is very tender if cut at the right stage, which is when it is in full bloom. About three-fourths of a bushel of seed is sown to the acre; 48 lbs. per bu. A good yield is from three to five tons of hay to the acre. For prices of all brands, see our Red Figure Price List.

Common or Northern Millet. As stated before, Common Millet does not yield so much hay nor so good hay as the German (Southern Seed). It is usually much cheaper than true German. Grows usually from two and one-half to four feet high and makes excellent hay. Sow about three-fourths of a bushel to the acre. We have in store this season an especially fine lot of Common Millet which is as nearly perfect in quality as Common Millet can be. This we are offering under our Sterling Brand. All grades of Common Millet will be priced on our Red Figure Price List which is issued frequently during the season as changes in prices make it necessary. Sent free upon request.

Hungarian. (Dark Seed.) Often called Hungarian Grass. Many regard this as being better even than German Millet as it is about one week earlier and requires less moisture. The hay is fine and of excellent feeding value.

It is especially valuable on account of requiring such a short season to make a fine crop of most excellent hay. For this reason it is much used as a catch crop. It can be sown as late as the 4th of July with good results, in ordinary seasons. It is much used for following such crops as early potatoes and barley for a crop of hay, thus giving two crops on the same land in one year. Also grown as



A Plot of German Millet.
Grown from True Southern Grown Seed. Note the Heavy Growth.

a green manuring crop to turn under, adding humus or fertility for future crops. Hungarian Millet does not grow so coarse as some other varieties, but still yields quite heavily, from two to four tons of hay to the acre being an ordinary crop. Hay is quite leafy, of very fine quality. Crop short and the supply of good seed is limited. For prices see our Red Figure Price List enclosed.

Siberian Millet. A fine variety from Russia, earlier than either German Millet or Hungarian, and consequently very valuable for the North and yields remarkably. It is extremely hardy, notwithstanding drought wonderfully and is about two weeks earlier than the German Millet. The leaves are very tender, making it excellent for hay. The South Dakota Experiment Station pronounces it "the most promising variety yet tested." The plant stools to a remarkable degree, as many as thirty to forty stalks have been grown from one seed, and is not subject to rust. Crop very short, we advise early orders. For prices see our Red Figure Price List enclosed.

Kursk Millet. This variety was first introduced to the farmers of the United States from Kursk, Russia, in 1898, after which extensive experiments were conducted at both South Dakota Stations, demonstrating the superiority of this new variety. Results since then have been more than gratifying. It ranks very high both as a hay and seed producer, and in dry years the weight and quality of hay have been far superior to other sorts. In favorable seasons, so much difference is not apparent, but it has always been in favor of Kursk Millet. While on moist lands, the German or other southern varieties are recommended, for dry sections we urge the planting of Kursk Millet, knowing that it will produce the results claimed for it. For prices see our Red Figure Price List enclosed, or a new one will be mailed promptly upon request.

Japanese Millet. Improperly called "Billion Dollar Grass." Entirely distinct from all other Millets. It grows from 6 to 9 feet high, stands up remarkably and yields enormous crops. When cured it makes good hay and in quality is superior to corn fodder. It is relished by all kinds of stock. It may be sown broadcast at the rate of 15 lbs. an acre, but it is better to sow in drills 12 to 18 inches apart, using 10 to 12 lbs. to the acre. Cultivate until the plant is 18 inches high, when its rapid growth will smother all weeds. It does best on low, moist ground. For prices see our Red Figure Price List enclosed, or a new one will be mailed promptly upon request.

Hog or Broom Corn Millet. This is grown for the same purpose for which other Millets are sown, and makes fair hay if cut very young. It, however, yields enormously of seed, even 60 to 70 bushels to the acre, and this seed is very advantageously used for fattening swine and other stock, and is of special value for this purpose in sections where corn cannot be safely or cheaply grown. Seed also makes very fine feed for poultry and young chicks. It is very similar to the Early Fortune Millet, except that the seed is yellowish white in color. It will mature in about two months from sowing the seed. For prices see our Red Figure Price List enclosed, or a new one will be mailed promptly upon request.

Early Fortune Millet. A most promising variety, of which astonishing yields are reported. It is very early, and is claimed to be rust proof, and that chinch bugs will not eat the plant. The seed is very beautiful and distinguished in appearance and is of a beautiful red color. The seed is two or three times the size of German Millet. This variety heads in from 25 to 35 days. It gives large yield both of seed and fodder. It can be fed to horses and other stock without injury, even when cut so late that the seed has formed. The seeds are smooth, the heads are branching, and in other respects this variety is similar to Hog Millet except for the color of the seed. For prices see our Red Figure Price List enclosed, or a new one will be mailed promptly upon request.

See opposite page for further information on Millets.
All Grass and Field Seeds are shipped at purchaser's expense. See page one for general information, suggestions to customers and parcel post rates.

Forage Crops and other Grasses. By Prof. Thomas Shaw. How to cultivate, harvest and use them. Price, \$1.00, (postpaid, \$1.10).
Grasses and How to Grow Them. By Prof. Thomas Shaw. Complete in all particulars. 140 pages. Price, \$1.50, (postpaid, \$1.65).
Soiling Crops and the Silo. By Prof. Thomas Shaw. Illustrated. 364 pages. Price, \$1.50, (postpaid, \$1.65).



Broom Corn and Kursk Millet Seed Heads.



First Cutting of Northrup, King & Co.'s Combination Grass and Clover Mixture.

PERMANENT MEADOW AND PASTURE MIXTURES

We ask purchasers to observe that we are able to offer the following mixtures at reasonable figures, only from the fact that we make up large quantities before the commencement of the season, therefore nothing can be taken out. In all these mixtures we are introducing small quantities of Alfalfa seed with the idea of inoculating the land with the Alfalfa bacteria. Alfalfa revolutionizes farming but the bacteria must be established before the revolution can occur. We cannot afford to add anything to these mixtures on account of the slight margin upon which we have figured. We shall be glad, however, to make estimates upon any special mixtures desired by our patrons. Our recommendation for quantity to the acre is fixed on the basis of good, fair seeding. The quantity can, of course, be spread over more or less ground as the case may demand. 25 lbs. supplied at the 100 lb. rate.

These are mixtures we can "stand by." We can make up lower priced mixtures if desired but the cost of the seed is so small, compared with the value of a good meadow, that it would not usually pay to plant anything but the best mixture obtainable.

Mixtures for Permanent Meadows.

No. 1. For dry and high land. Contains Red Top, Medium Red, Mammoth Red and Alsike Clovers, Alfalfa, Timothy, Orchard Grass, Perennial Rye Grass, Meadow Fescue, Hard Fescue, Canada Blue Grass, Kentucky Blue Grass and Slender Wheat Grass. Sow 20 to 30 lbs. to the acre. Per 100 lbs., \$16.00. Bags included.

No. 2. For good land neither too wet nor too dry. Contains Orchard Grass, Medium Red and Alsike Clovers, Timothy, Meadow Fescue, Perennial Rye Grass, Hard Fescue, Sheep's Fescue, Alfalfa, Kentucky Blue Grass and Red Top. Sow 20 to 25 lbs. to the acre. Per 100 lbs., \$14.50.

No. 3. For moist and wet land. Contains Red Top, Timothy, Alsike and Medium Red Clover and Tall Fescue. Sow 20 to 25 lbs. to the acre. Per 100 lbs., \$15.00. Bags included.

Mixtures for Permanent Pastures.

No. 4. For good high and dry land. Contains Orchard Grass, Hard Fescue, Sheep's Fescue, Timothy, Perennial Rye Grass, Medium Red, Mammoth Red and White Clover, Kentucky Blue Grass, Canadian Blue Grass, Meadow Fescue and Alfalfa. Sow 25 to 35 lbs. per acre. Per 100 lbs., \$16.50. Bags included.

No. 5. For good land neither too wet nor too dry. Contains Orchard Grass, Sheep's Fescue, Timothy, Perennial Rye Grass, Red, Alsike and White Clover, Alfalfa, Kentucky Blue Grass and Red Top. Sow 25 to 35 lbs. per acre. Per 100 lbs., \$15.50.

No. 6. Especially for prairie conditions. Contains Slender Wheat Grass, Canada Blue Grass, Kentucky Blue Grass, Red, White and Alsike Clover, Alfalfa and Bromus Inermis. 30 to 40 lbs. per acre. Per 100 lbs., \$18.75. Descriptions of each variety of grass mentioned above will be found on pages 139 to 145.

Awarded a \$150.00 Prize.

I believe I owe to Northrup, King & Co. the awarding of the \$150.00 prize in this district, given by Mr. James J. Hill for the best managed farm in the Dakotas and Minnesota. The deciding point in Prof. Shaw's mind, the judge who passed upon the merits of each farm, was the fine pasture on this farm. There were a number of farms entered in the competition with finer buildings and better stocked and fenced, but in the six years which I had been here I had used nothing but Northrup, King & Co.'s seed, and had just put in a permanent pasture the Spring before the judges came. In the Fall each of the eight kinds of seed showed a luxuriant growth and were easily identified in the stubble. As I expected my seeds to return to me a thousand fold I thought it folly to stop at first cost in obtaining the best.

G. F. MOORE, Inwood Stock Farm, Minn.

Northrup, King & Co.'s Combination Grass and Clover Mixture.

For Both Hay and Permanent Pasture

It affords enormous crops of hay of the finest quality and highest feeding value, and after this has been cut furnishes continuous and abundant pasture of the richest and most nutritious character until Winter sets in. It will stand for years and may be used either for pasture exclusively or hay and pasture, as varying conditions may suggest.

We stake our reputation on this mixture, not only as to the purity and germination of the seeds used, but as to the satisfaction it will give to those who purchase.

Contains Mammoth Red, Medium Red, Alsike and White Clover, Alfalfa, Timothy, Kentucky Blue Grass, Meadow Fescue and Perennial Rye Grass.

Owing to the deep rooting and spreading character of many of the varieties employed, fields sown with this mixture, will, during periods of drought, look fresh and green while other meadows and pastures are dry and burned. Price, 100 lbs., \$17.00. Bags free. 25 lbs. supplied at the 100 lb. rate.

Quantity—We recommend at least 40 lbs. to the acre.

Brush Pasture Mixture.

The modern farmer and stockman does not dig grubs and stumps from brush lands, the expense of muscle and money is too great to warrant the cost. After the wood from such lands has been cut and sold, he seeds the field to tame grasses and Clovers which soon take possession of the soil, when it is pastured with sheep, horses and other stock. During the time of pasturing the roots and stumps will decay and thus the brush lands are made profitable from the beginning at very low cost.

Brush Pasture Mixture contains a variety of seeds such as Blue Grass, Red Top, Alsike, Red and Alfalfa seed, etc., which will thrive on cut-over lands. The introduction of a small quantity of Alfalfa seed in this mixture is a particularly good feature as it establishes the Alfalfa bacteria in the soil, preparing it as Alfalfa land when it is ready for cropping. Indeed, we are now putting small quantities of Alfalfa in all our Farm Grass Mixtures, with this purpose in view. It is the approved way of establishing the Alfalfa bacteria. This is a valuable and practical addition to our list of mixed grasses. If there is considerable brush on the land cut in July or August. Then sow the seed as freely as seems desirable. It may be mentioned that brush cut at that time rarely grows again. Price, 100 lbs., \$12.00. Bags free.

Bottom Land Grass Seed Mixture.

Since the advent of county ditches, drainage canals and government projects for the reclaiming of thousands of acres of swamp land throughout our country, there has been a great demand for a grass seed mixture which will thrive on this class of soil. We recommend this mixture with full assurance that it will give satisfaction. Our trials have demonstrated this beyond a doubt. There is no tame grass which will grow in standing water, but on moist bottom lands good results will be obtained. Price 100 lbs., \$12.50. Bags free.

Write for Prices.

Whenever you are in the market for grass and field seeds be sure to write for samples and our latest Red Figure Price List or a special quotation. Thus you can take advantage of market conditions. Asking for advice, quotations or samples places you under no obligations to purchase but you will rarely have any doubt as to quality or values when you have carefully examined our offers.

LIQUID and DUST SPRAYERS.

Timely spraying will save your fruits, vegetables and flowers.

Spraying Suggestions.

For sucking insects that live on plant juices—such as scales, lice and aphids, use Fir Tree Oil Soap, Fish Oil Soap, Kerosene Emulsion, Lemon Oil Co.'s Insecticide, Lime-Sulphur Solution, Nico-Fume Liquid, Sulpho-Tobacco Soap or Tobacco Extract. See page 149 for particular information on each. To kill chewing insects that eat the leaves or fruit—for example, currant worms, canker worms, apple worms (codling moth) and cabbage worms, apply Arsenate of Lead, Bug Death, Hellebore, Paris Green or Slug Shot. For Cutworms use Cutworm Food or Paris Green. For blight and diseases use Bordeaux Mixture, Formaldehyde, Grape Dust or Lime-Sulphur. See page 149.

Auto-Spray No. 1.

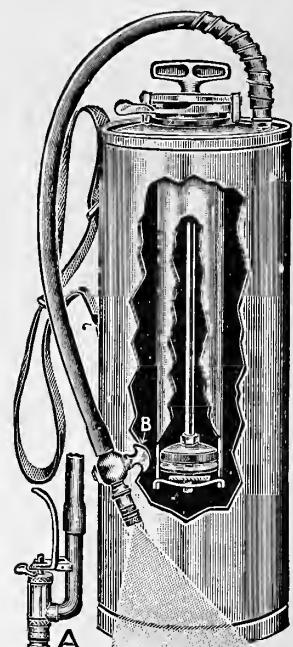
A compressed air sprayer warranted against mechanical defect and guaranteed satisfactory. We have offered this sprayer for many years and with increasing success. We find the machine thoroughly dependable. Compressed air sprayers far excel the old style bucket or knap-sack devices and combine every point of excellence in a spray machine. The sprayer is first loaded two-thirds full of solution and air is then compressed in the remaining third. The compression of the air forces out the solution in the form of a fine mist or spray. It is perfectly simple and thoroughly durable. A few strokes of the plunger will operate the machine for several minutes.

Uses—It is used for spraying trees and plants, green houses, poultry houses, washing windows or wagons, as a fire extinguisher, for spraying cattle to keep off flies, for spraying lawns to eradicate dandelions, in fact for every spray purpose. Three lengths of extension are recommended for tree work. The Auto-Spray No. 1 is used by nearly, if not all, the state experiment stations, and by the United States Government, and it is used and recommended by thousands upon thousands of agriculturists and horticulturists throughout the world.

Styles—The Auto-Spray is built in four styles, as priced below. We recommend the Brass Auto-Spray No. 1-B, because it will resist the action of all spray solutions, and the Auto-Pop with nozzle cleaner, is the only self cleaning device on the market. Shipping weight, 15½ pounds.

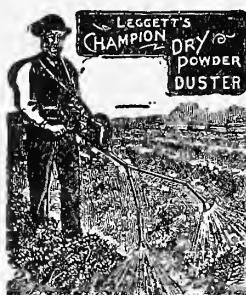
Prices—Our prices on all sprayers include packing and delivery to express or freight office at Minneapolis, purchaser to pay transportation. Where seeds are to be sent at the same time, a sprayer can be put in without any appreciable extra charge for transportation. With every sprayer is furnished complete instructions for use and formulas for emulsions, disinfectants, etc., the materials for which can be obtained cheaply at any drug store.

Auto-Spray No. 1-A, Brass Tank with Stop Cock.....	\$8.00
Auto-Spray No. 1-B, Brass Tank with Auto-Pop (recommended).....	8.50
Auto-Spray No. 1-C, Galvanized Tank with Stop-Cock.....	5.00
Auto-Spray No. 1-D, Galvanized Tank with Auto-Pop.....	5.50
Auto-Pop No. 1 is a patented shut off device with self-cleaning attachment. Operating the lever opens or closes the valve and cleans the nozzle aperture automatically. Supplied separately.....	\$1.50
Brass 2 ft. Extension, each.....	.60
Brass Elbow Extension, each.....	.30
Two Row Attachment.....	1.50
Strainer, for Auto-Spray, No. 1. Solid Brass.....	1.00



Auto Spray No. 1.

DRY SPRAYERS.



Leggett's Champion Duster.

Leggett's Champion Duster.

Distributes Paris Green, Hellebore, Sulphur, Etc. Dispenses with all bother and labor of using water. For Farm, Garden, Vineyard, Tobacco Fields, Etc.

This implement has proved itself "Champion," being far ahead of any other machine in its capacity to distribute a uniform and almost imperceptible quantity of Paris Green, or other powder, doing effective work without injuring the foliage when used properly. The dry method is rapidly superseding liquid sprays.

Will green two rows of potatoes at once as fast as a man walks.

Machine weighs about six pounds. Without tubes it is 27 inches long. Each machine includes four sixteen inch tubes, six nozzles and two straps. Weight cased, 17 lbs. The reservoir holds over a quart of powder, equal to about 4 lbs. of Paris Green.

Price, \$9.00; by express or freight at purchaser's expense.

Champion No. 2.

This duster is the same in its operation and arrangement as the regular Champion, but is a little larger and more powerful. It is particularly used and recommended for the distribution of powdered arsenate of lead, having an 8-inch Fan Box, which increases the air blast. The extra attachable reservoir increases its holding capacity. Weight about 8 pounds. Cased, with all attachments complete, 22 pounds. Price, \$12.00.

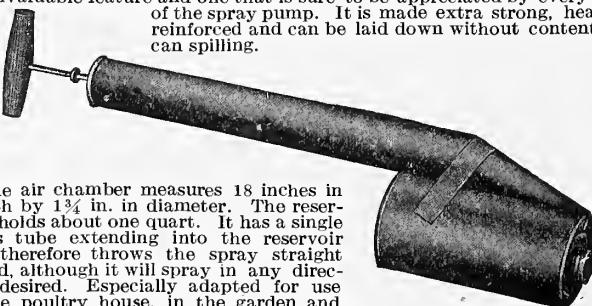
Little Giant Duster.

Distributes any dry powder, Paris Green, etc., to perfection. This method has long ago passed the experimental stage, and highest authorities sanction it. Dust potato vines as fast as you walk, two rows at a time. Reservoir holds nearly a quart of powder. Machine weighs 6 lbs. One packed in a case complete, three tubes, five nozzles and strap. Cased for shipping weighs 15 lbs. Price, \$7.00; by express or freight at purchaser's expense.

Excelsior Single Tube Sprayer.

Sprays in any Direction.

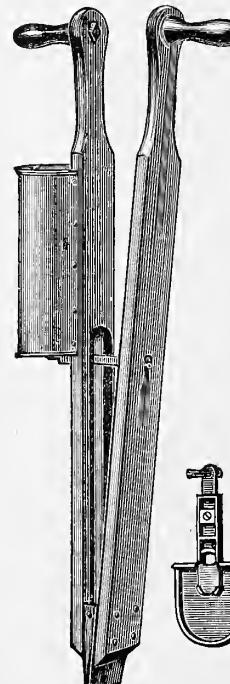
An invaluable feature and one that is sure to be appreciated by every user of the spray pump. It is made extra strong, heavily reinforced and can be laid down without contents of can spilling.



The air chamber measures 18 inches in length by 1 1/4 in. in diameter. The reservoir holds about one quart. It has a single brass tube extending into the reservoir and therefore throws the spray straight ahead, although it will spray in any direction desired. Especially adapted for use in the poultry house, in the garden and orchard and on the farm. Price, 50c. Mailing weight 1 lb.

Smith's "Junior" Continuous Sprayer.

This sprayer will do more work with less labor than any other in its class. It is made of tin, galvanized iron or brass and holds one quart. It is furnished with two interchangeable brass nozzles for spraying straight ahead or at any angle. The compressed air chamber being in front of the barrel allows the reservoir to be filled full, thus giving it an extra large carrying capacity. All parts are easily removed for cleaning, with filling hole cap of brass. This sprayer is suitable for vegetables, disinfectants and general farm spraying. Price of 1 quart size: All Tin, 50c; Galvanized Iron, \$1.00; Brass, \$1.50. Express or freight at purchaser's expense.



Acme Corn Planter.

Acme Corn Planter. Works in any soil; has a flexible and adjustable iron drop, and does not wear the brush. It has an iron seed box and iron channel. The foot is made of polished steel. It is well made, strong, durable, reliable and gives universal satisfaction. Price, \$1.25.

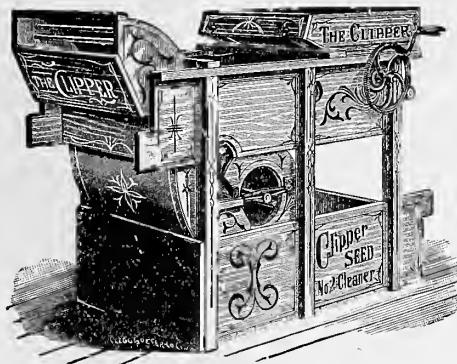
Triumph Hand Corn Planter. A pioneer implement in this line and one that has always been popular. It is light and easily handled, yet strongly made, and with reasonable care, should last a long time. It works on any soil and never clogs. The operator can see the corn deposited in the ground. Price, \$1.00.

When desired we furnish the Triumph Planter with an extra compartment in lower end of hopper, and an additional seed slide for planting pumpkin seed at the same time with corn. Price, \$1.25.

Eureka Potato Planter. A light tubular planter. Its spring-closed jaws are especially designed to enter the soil easily, yet open wide enough to drop the largest seed. The dropping lever is adjustable for any depth of planting. The conveyor tube is galvanized iron. Price, each, \$1.25.



Potato Planter.



"Clipper" Grain and Seed Cleaner Unexcelled for Farm Use.

For a quarter of a century we have used "Clipper" Grain and Seed Cleaners in our warehouse and they have played an important part in sustaining and enhancing the reputation of Northrup, King & Co. for selling clean, plump seeds of high quality.

We have tested every Fanning Mill on the market, and find the "Clipper" excels them all.

These cleaners are first class in every respect. They are equipped with the best outfit of screens ever sent out with a farm mill. You can make any separation on the Clipper, based on difference in sizes of seeds or grains, that can be made with screens, and the vertical air blast will make separations based on difference in weight that would be impossible with most other machines.

How the "Clipper" Eradicates Weeds.

One reason your fields choke up with weeds is because you sow them with your seed.

The way to get rid of the weeds is to clean your seed with the "Clipper" before sowing.

It will take out weed seeds, light, dead seed or grain, and help insure an even stand of strong plants, increasing the yield an acre, and the grade as well. That means more profit and a larger bank account, at the end of each season.

What the "Clipper" Will Do.

The "Clipper" will clean all classes of grain and seeds, such as wheat, corn, oats, barley, rye, beans, peas, buckwheat, kafir corn, cane seed, millet, clover, alfalfa, timothy, mustard, flax, etc., and is suitable for farm or general use. Unlike other mills, the "Clipper" cleans all classes of seeds and grains in one operation. Effectual separation of plantain from clover seed is accomplished, removing imperfect and foreign seed, as well as cleaning the perfect seed, and any other separation that from its nature is not impossible. It is the best hand mill made for grading seed corn.

The new, improved No. 1 B "Clipper" Mill embodies many new features, includes a revision and addition to the screen assortment making it suitable for practically all kinds of work.

The perforated zinc screens are graduated in 64ths of an inch in both round and oblong holes. The woven wire screens are made of plated wire with the meshes uniform and true to count. The zinc screens will not rust and our plated wire screens will last for years if properly cared for. An illustrated instruction booklet showing how to use all the screens, sent free upon request.

Every "Clipper" Mill is guaranteed, both as to material and workmanship. They are built by competent, skilled workmen and nicely finished in three coats of paint and varnish.

Every farmer ought to own a "Clipper Mill." It will pay for itself over and over again by the increase in crop yields and improvement in quality. If more information is desired we will mail "Clipper Leaflet" free, on request.

Exclusive Features.

The "Clipper" will handle seed wheat at the rate of 20 bushels an hour and clover seed at the rate of 10 bushels an hour. No other Fanning Mill on the market will dispose of grain and seed so rapidly and well.

When you buy a "Clipper" you get necessary attachments without extra charge, including two wire and ten perforated zinc screens, equipped with separating boards.



Sterling Broadcast Seed Sower.

This has the following special features:

A slant feed board—keeps hopper properly filled.

Automatic feed adjustment—starts or stops flow instantly.

Oscillating feed. Agitator—positive force feed—can't clog.

Patent distributing wheel—no soldered joints, full regulation size, scatters seed evenly always.

Triple gears. All adjustable.

Large hopper—unequalled capacity, yet easy to handle.

Well known for its accuracy in all broadcast seedling—fertilizer and all seed

Carried comfortably by a strap over shoulder—not around neck—and is shaped to fit the body.

that can be sown broadcast. This seeder will sow any seed that is sown broadcast, such as oats, wheat, rye, flax, millet, clover, timothy, grass seed, etc. It can be very readily adjusted to suit the seed being sown. The feed plate and agitating device are of heavy sheet steel and all adjustments of spring steel. The hopper is of heavy duck and holds about one-half bushel. This machine has also a patented, interlock, double flange, non-solder-joint distributing wheel, which is itself worth the price of the seeder. It will be found the strongest, neatest, and most compact hand seed sower made.

By freight or express, \$1.50, customer to pay transportation. Mailing weight, 6 lbs.

Cahoon Seeder.

Larger in size than the Sterling Seed Sower and will distribute the seed over a slightly larger area. One of these machines will last a life-time.

It will seed evenly, 4 to 6 acres an hour. It will scatter the following distances; wheat, barley, rye, 25 ft., clover and timothy, 18 to 20 ft. The bag and hopper hold about 22 qts. Price, each, \$3.50. Mailing weight, 7½ lbs.

Our Red Figure Price Lists are issued at frequent intervals during the season. We will gladly mail you a copy free, upon request.



Cahoon Seeder.

The screens are so arranged as to be in plain view and of easy access to the operator while the machine is in operation.

Vertical air shaft, through which the draft passes upward, carrying chaff, dust, etc., through dust hood, another "Clipper" device.

The vertical air blast is a feature that no other cleaner has and it makes possible some very difficult separations that can be made in no other way. For instance, when cleaning seed grains, if the blast is properly regulated and the mill turned just fast enough, all the light shrunken kernels can be blown out or separated, leaving only the largest, heaviest, plumpest grain which is the choicest kind of seed and this passes into the grain box.

The grain box has a lifting board at the end, which allows the contents to be easily scooped into sacks. This grain box is highly important, as it prevents waste, makes sweeping floors unnecessary, and is just the place to store the screens and all detached parts when not in use. The steel shafting of the fan has a cone pulley, which enables you to change the speed of the fan to suit the varying weights of grains and seed.

To everyone desirous of obtaining a first-class, inexpensive and durable mill, for general use, we recommend the "Clipper."

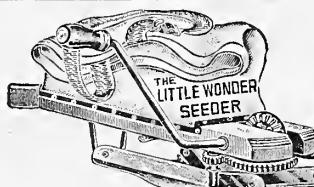
Endorsed and used by State and Government Experiment Stations.

Important Announcement.

We have arranged with the manufacturers for the sale of the "Clipper" Grain and Seed Cleaner, in the states of Minnesota, North Dakota, South Dakota, Iowa, Montana and Northern Michigan.

Price, No. 1 B, "Clipper", \$25.00 f. o. b. Minneapolis. Shipping weight, 185 lbs. Full directions for operating sent with every cleaner.

The No. 2 B "Clipper" is a hand power cleaner and differs from the 1 B only in size and capacity. It is designed especially for cleaning all kinds of fine seeds, such as clover, timothy, alfalfa, millet, flax, red top, blue grass, etc., and will clean about 5 bushels more of grass seed per hour than the 1 B. This size will do any work that can be done on a No. 1 B, but it is not recommended as a grain cleaner if it is to be operated by hand, as more power is required than on grass seeds. We can furnish a driving pulley, however, for 50c, postpaid. Twelve seed screens are furnished with this mill. Price, No. 2 B. "Clipper" Seed Cleaner, \$35.00 f. o. b. Minneapolis.



Little Wonder Seed Sower.

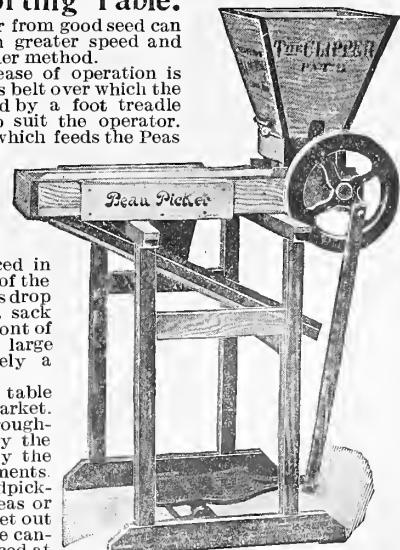
A low priced sower that is well built. The bottom board is an inch thick. The sower does good work and gives satisfaction. Price, \$1.00, shipped at customer's expense. Mailing weight 5 pounds.

"Clipper" Bean and Pea Picking and Sorting Table.

The work of separating poor from good seed can be done very accurately with greater speed and less expense than by any other method.

From the illustration its ease of operation is readily apparent. The canvas belt over which the Peas or Beans flow is operated by a foot treadle and may be run at a speed to suit the operator. This also works an agitator which feeds the Peas or Beans on the belt in the proper quantity. As the seed passes towards the operator, who remains seated during the work, the discolored, broken or otherwise unsuitable seeds may be quickly and easily removed and placed in the receptacles on either side of the belt. The good Peas or Beans drop into a spout and run into a sack which may be placed at the front of the machine. The hopper is large and will hold approximately a bushel of seed.

We consider this picking table the most satisfactory on the market. There are thousands in use throughout the country; not only by the small grower or farmer, but by the large seed growing establishments. Its cost will be saved by handpicking a very few bushels of Peas or Beans. There is nothing to get out of order or wear out, except the canvas belt which may be replaced at a trifling expense. Our price with large hopper is \$9.00, f. o. b. Minneapolis.

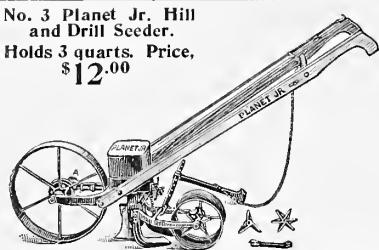


The "Clipper" Foot-Tread Pea and Bean Picking and Sorting Table.

PLANET JR. FARM AND GARDEN TOOLS.

It will pay you to use Planet Jr. Tools. They do the work of three to six men—do it better, give bigger results, and last a lifetime. Over two million farmers and gardeners are using them. Join their ranks now and share their success. Fully illustrated Catalogue of Planet Jr. Garden Tools mailed free on request.

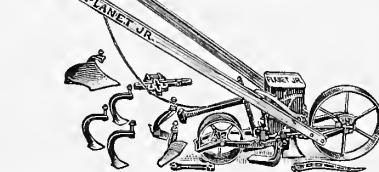
No. 3 Planet Jr. Hill and Drill Seeder. Holds 3 quarts. Price, \$12.00



We recommend customers to buy separate Seeders and Wheel Hoes where they have enough work to warrant it. No. 3 sows in hills 4, 6, 8, 12 or 24 in. apart or in a continuous row. A favorite among onion growers and market gardeners.

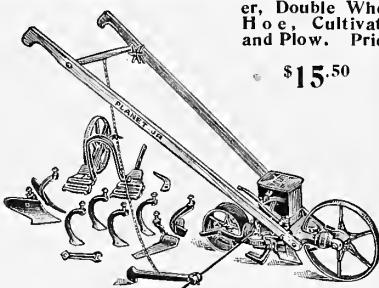
No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow.

Price Complete, \$12.75
As a Seeder Only, \$10.25



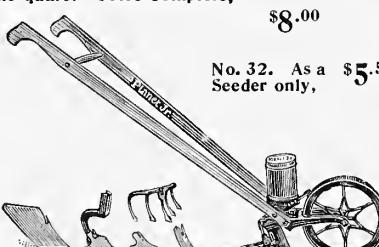
Soon pays for itself in the family garden as well as the larger acreage. Sows all garden seeds (in drills or in hills), plows, opens furrows and covers them, hoes and cultivates.

No. 25 Planet Jr. Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow. Price, \$15.50



A splendid combination for the family garden, onion grower, or large gardener. Is a perfect seeder, and combined double and single wheel-hoe. Capacity—2 acres a day.

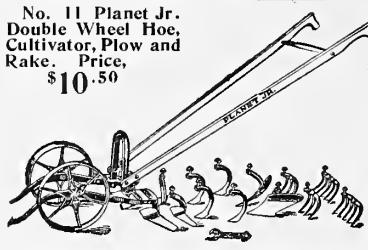
No. 31 Planet Jr. Seeder and Wheel Hoe. Holds one quart. Price Complete, \$8.00



The ideal tool for a small garden, combining a Seeder that will sow even a paper of garden seeds with a light running Single Wheel Hoe. Sold also without the Seeder (No. 33 Wheel Hoe.) Price \$3.50.

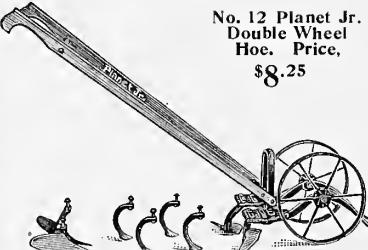
	Our Price.
No. 28, Hill and Drill Seeder, Single Wheel Hoe and Cultivator.	\$12.00
No. 29, Hill and Drill Seeder, plain, (as a seeder only)	12.75
No. 30, Single Wheel Hoe, Cultivator, Plow and Rake	8.50
No. 6, Hill and Drill Seeder and Single Wheel Hoe	16.50
No. 6, Hill and Drill Seeder, plain, (as a seeder only)	13.50
No. 36, Single Wheel Hoe	7.00
No. 5, Hill and Drill Seeder	15.00
No. 1, Combined Drill Seeder and Wheel Hoe	11.00
No. 13, Double Wheel Hoe	5.50
No. 14, Double Wheel Disc Hoe, complete	9.50
No. 13½, Double Wheel Disc Hoe, plain	7.00

No. 11 Planet Jr. Double Wheel Hoe, Cultivator, Plow and Rake. Price, \$10.50



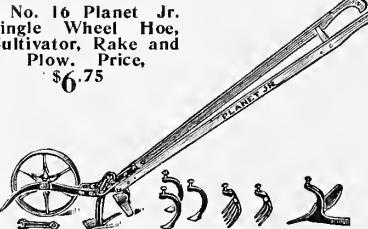
A single and double wheel-hoe in one. Straddles crops till 20 inches high, then works between. The plows open furrows and cover them. The cultivator teeth work deep or shallow. The hoes are wonderful weed-killers. The rakes do fine cultivation and gather up trash. Unbreakable steel frame, 14 inch steel wheels.

No. 12 Planet Jr. Double Wheel Hoe. Price, \$8.25



No. 12 is identical with No. 11, except that the 4½ inch hoes and rakes are not included.

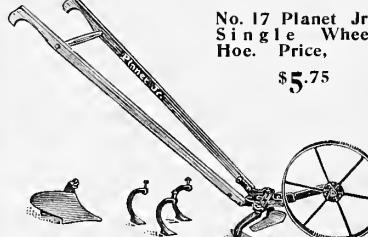
No. 16 Planet Jr. Single Wheel Hoe, Cultivator, Rake and Plow. Price, \$6.75



The highest type of Single Wheel Hoe made. Light, but strong, and can be used by man, woman or boy. Will do all the cultivation in your garden in the easiest, quickest and best way.

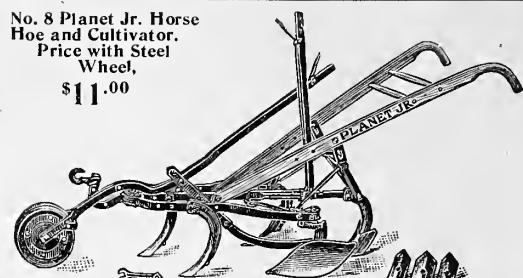
Indestructible steel frame. 15 inch steel wheel.

No. 17 Planet Jr. Single Wheel Hoe. Price, \$5.75



You can do more and better hoeing with it in one day than you can do in three days with a hand hoe. The No. 17 has a pair of 6-inch hoes, a plow and a set of cultivator teeth, an outfit sufficient for most garden work.

No. 8 Planet Jr. Horse Hoe and Cultivator. Price with Steel Wheel, \$11.00

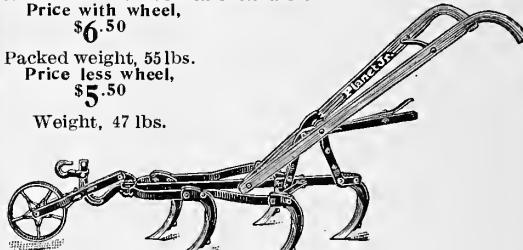


Strongly made, and capable of a great variety of work. Non-clogging steel wheel. Depth-regulator and extra long frame make it run steady. 5 inch turning shovels with bolt, 60c per pair.

No. 101 Planet Jr. Plain Cultivator. Price with wheel, \$6.50

Packed weight, 55 lbs. Price less wheel, \$5.50

Weight, 47 lbs.



The Planet Jr. No. 101 Plain Cultivator is light yet strong, and one of the best tools offered.

Planet Jr. 12-tooth Harrow, Cultivator and Pulverizer. Complete, \$11.00

Without Pulverizer, \$9.00



Is invaluable to market-gardeners, truckers, tobacco and small-fruit growers. The twelve chisel-shaped teeth cut out all weeds, stir and mellow the soil without throwing dirt on plants, and the pulverizer leaves the ground in the finest condition.

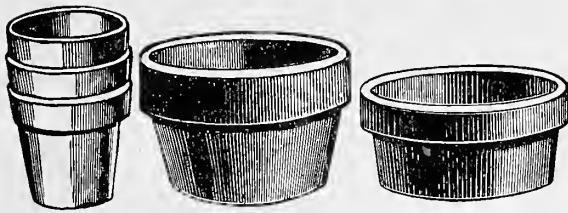
Barker Wheeler and Mulcher.

This is a practical, as well as up-to-date, hand cultivator, doing better work than many others; it has small pointed shoes or hoes. The Barker is made on the principle of a lawn mower, the long revolving blades working up the surface of the ground thoroughly, cutting the weeds and separating them from the soil, so that they are easily destroyed. More effective, as no weeds can be missed and a fine mulch is left over the surface of the ground, which prevents the evaporation of the moisture.

The Barker is made in three sizes, viz: 6-inch cut, 8½ inch cut, and 11-inch cut. Each machine is fitted up with leaf guards and tooth attachment. The 8½-inch cut is the standard size for onion sets and ordinary market garden crops. The 6-inch is for lettuce and crops that are planted in close rows. The 11-inch for crops that are planted from 14 to 18 inches apart in rows.

No. 6 D. Complete with all attachments, 6 inch	\$6.00
No. 8½ D. " " " 8½ " " 7.50	
No. 11 D. " " " 11 " " 9.50	

	Our Price.
No. 17½, Single Wheel Hoe	5.25
No. 18, Single Wheel Hoe	4.25
No. 38, Single Wheel Disc Hoe, complete	8.00
No. 18½, Single Wheel Disc Hoe, plain	5.50
Firefly Garden Plow	2.50
No. 19, Single Wheel Hoe	4.00
No. 7, Horse Hoe and Cultivator, complete, with steel wheel	10.50
No. 9, Horse Hoe and Cultivator, without wheel	9.50
No. 9, Cultivator with steel wheel	8.25
No. 81, Horse Hoe, Cultivator and Hiller, complete, with steel wheel	12.25



Flower Pot

Azalea Pot

Bulb Pan

Red Clay Flower Pots.

Six at dozen rate, 50 at 100 rate.			
Each	Doz.	100	\$
2 inch	.01	.12	5.70
2½ inch	.02	.15	7.75
3 inch	.02	.20	9.90
3½ inch	.03	.25	12.25
4 inch	.03	.30	14.90
4½ inch	.04	.35	20.80
5 inch	.05	.45	27.95
5½ inch	.06	.55	35.10
6 inch	.07	.65	42.50
7 inch	.10	1.00	69.50
8 inch	.15	1.50	10.95
9 inch	.25	2.25	16.85
10 inch	.30	3.00	23.20
12 inch	.55	6.00	45.90

Red Clay Fern or Bulb Pans.

With straight sides or with rims.

Each	Doz.	\$
5 inch	.05	.45
6 inch	.07	.65
7 inch	.10	1.00
8 inch	.15	1.50
9 inch	.25	2.25
10 inch	.30	3.00
12 inch	.55	6.00

Red Clay Azalea Pots.

Six at dozen rate, 50 at 100.

Each	Doz.	\$
5 inch	.05	.45
6 inch	.07	.65
7 inch	.10	1.00
8 inch	.15	1.50
9 inch	.25	2.25
10 inch	.30	3.00
12 inch	.55	6.00

Water Proof Paper Flower Pots.

Six at dozen rate, 50 at 100 rate.

	Doz.	100	500	1000	\$
2½ inch. (Mailing weight, 3 oz. per doz.)	.10	.35	\$1.60	\$3.00	
2½ inch. (" 4 oz. ")	.10	.40	1.85	3.50	
3 inch. (" 5 oz. ")	.15	.60	2.75	5.00	
3½ inch. (" 6 oz. ")	.15	.75	3.40	6.25	
4 inch. (" 7 oz. ")	.20	.95	4.40	8.25	
5 inch. (" 10 oz. ")	.25	1.30	6.25	12.00	

Natural Raffia.

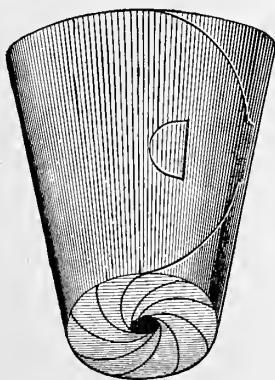
The best tying material for plants. Also used extensively in basket making in combination with Basketry Reed or Rattan. Price, lb., 30c. When sent by mail, add for postage at parcel post rates.

Colored Raffia.

Valuable for fancy work in making baskets, bags, etc., usually with Reed or Rattan. The following colors are kept in stock at all times; red, dark green, purple, blue, brown, crimson, black, pea green and orange. Price, lb., \$1.00; ¼ lb. at the pound rate. Also put up in two ounce bundles at 15c each. When sent by mail, add for postage at parcel post rates.

Basketry Reed or Rattan.

Nine sizes are carried in stock, besides the flat reed, the highest priced being the smallest in size. Put up in round bundles in various weights, ¼ lb. to 1 lb. each. By mail, add for postage at parcel post rates. No. 00 Round Reed, per lb., \$2.85 No. 4 Round Reed, per lb., \$1.00 No. 0 " " 2.50 No. 5 " " .80 No. 1 " " 1.50 No. 6 " " .70 No. 2 " " 1.30 No. 7 " " .65 No. 3 " " 1.20 No. 6 Flat Reed " .80



Waterproof Paper Flower Pot.



Indurated Fibre Rolling Stand.

Tree Tanglefoot.

Especially recommended against Gypsy, Brown-tail and Tussock Moth Caterpillars, Spring and Fall Canker Worms, Climbing Cut Worms, Bag Worms and Ants. For Gypsy and Brown-tail Moths. Apply as soon as snow is off the ground.

Tussock Moths. Apply before May 15th.

Spring Canker Worms. In the South apply about Jan. 1st, in the North about March 1st.

Fall Canker Worms. Apply in the South not later than Sept. 1st, in the North not later than Oct. 15th.

Climbing Cut Worms. Apply about May 1st.

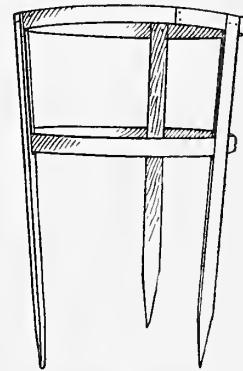
Prices. 1 lb. can, 35c; 3 lb. can, \$1.00; 10 lb. can, \$3.00; 20 lb. can, \$5.50; 25 lb. can, \$6.75. If ordered sent by mail add postage at parcel post rate, allowing ½ lb. extra weight to cover packing on each pound ordered.

Rubber Plant Sprinkler.

This is the finest sprinkler made. It is durable, quickly and conveniently filled, throws a strong, fine spray, which thoroughly washes the foliage of the plants, removing dust and insects. Indispensable for floral work, window gardening and sprinkling clothes. Price, No. 1, \$1.25; No. 2, \$1.00; No. 3, 90c; No. 4, 75c. With angle neck permitting upward ward spraying, No. 1, \$1.25; No. 2, \$1.00, Mailing weight, 8 oz.

Tomato Support.

Very valuable for keeping tomato vines off the ground. Will largely increase the yield, and improve the quality of the fruit. Every gardener should have them. Each, 15c; 2 for 25c; dozen, \$1.35. F. O. B. Minneapolis.



Tomato Support.

Square Plant Sticks.

For greenhouse or garden, strong and substantial.

Doz.	100
1½ ft.	.25 \$ 1.50
2 ft.	.35 2.25
2½ ft.	.45 3.25
3 ft.	.75 5.25
3½ ft.	.85 6.00
4 ft.	.95 7.15
5 ft.	1.25 9.35
6 ft.	1.50 11.50

Japanese Cane Stakes.

Light, strong and durable, for tying up tall growing plants.

Natural	Green Dyed	Doz.	100	\$
50	100	1000	2½ feet	.15 \$.85 \$ 6.00
6 feet	110	8.00	3½ feet	.20 1.25 10.00
8 feet	110	2.00	4 feet	.25 1.50 12.00
10 feet	185	3.50	5 feet	.30 1.75 14.00

Painted Tree Labels.

Doz.	100	500	1000
3½ inch iron wire. (Mailing weight, 3½ lbs. per 1000)	\$.20	\$.75	\$ 1.35
3½ inch copper wire. (" 3½ " " ")	.25	.95	1.75

Painted Pot Labels.

Doz.	100	500	1000
4 inch. (Mailing weight, 3½ lbs. per 1000)	\$.15	\$.60	\$ 1.00
4½ inch. { " 4 " " " }	.15	.65	1.15
5 inch. { " " 4½ " " " }	.20	.75	1.35
6 inch. { " " 5 " " " }	.20	.95	1.65

Painted Garden Labels.

Doz.	100	500	1000
8 inch. (Mailing weight, 2 lbs. per 100)	\$.60	\$ 2.75	\$ 5.00
10 inch. { " 2½ " " " }	.75	3.50	6.50
12 inch. { " " 3½ " " " }	.90	4.25	8.25

Indurated Fibre Saucers to use with Flower Pots.

Indurated Fibre is a wood pulp product, hardened by chemical process under great pressure. It is light, strong, waterproof, neat in appearance and is easy to keep clean.

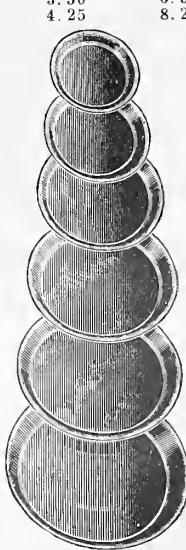
It is an exceptionally good material for flower pot saucers. Light, not easily broken, easy to clean. Will not sweat through and mould and its surface will not scratch woodwork, as earthenware does. Color, dark mahogany.

Each	Doz.	Each	Doz.		
5 inch	\$.17	\$ 1.98	9 inch	\$.23	\$ 2.64
6 inch	.18	2.04	10 inch	.24	2.76
7 inch	.19	2.22	12 inch	.29	3.36
8 inch	.21	2.40	14 inch	.37	4.32

Indurated Fibre Rolling Stands for Heavy Plants in Tubs or Pots.

The device consists of two steel pieces securely riveted and equipped with castors; a strong and compact support for plants, which can be readily rolled about from place to place without injuring the floor or carpet.

Takes tub diameter at bottom. Each	Doz.
12 inch for a 10 inch tub, \$.90	\$ 9.60
14 inch for a 11 inch tub, 1.10	12.00
16 inch for a 13 inch tub, 1.40	15.00
18 inch for a 15 inch tub, 1.65	18.00



Fibre Saucers.

HIGH GRADE FERTILIZER AND LAWN DRESSING

Our prices include sacks and cartage to depot in Minneapolis. 500 lbs. of one kind at ton rate, except where 500 lb. or 1000 lb. price is quoted. We cannot break bags except as noted.



Northrup, King & Co.'s Sterling Garden and Lawn Fertilizer.

Analysis: Ammonia, 2 per cent; available Phosphoric Acid, 12 per cent; Potash, 1 per cent.

Is a complete fertilizer, containing in the right proportions, a concentration of the elements which nourish and feed grass into luxuriant growth. It produces a rich, green color, and insures a permanent evenness over the whole surface of your lawn. It is not unpleasant to handle, being odorless, and as it is dry and fine, it is easily put on. Two or three applications in a season, at the rate of a pound to every hundred square feet, will keep your grass in flourishing condition—perfectly healthy and able to stand any amount of sun if watered.

The importance of a productive soil can hardly be overestimated; profitable crops cannot be grown on thin poor soil. Fertilizers are especially necessary in the home garden where the space is limited and one wishes to make every square foot count. On the farm the amount of fertilizer which it is profitable to use depends largely upon the value of the crop to be raised. See page 155 for general advice on the use of fertilizers.

When and How to Put it on Your Lawn. The first application should be in the early Spring—just as soon as the frost is out of the ground. Scatter it by hand carefully and evenly, so the distribution will be uniform. Use from 10 to 15 lbs. on every 1000 sq. ft. or 400 to 500 lbs. per acre, and if it can be put on just before a rain, so much the better. If unable to do this, wet it down with a hose as soon as possible after applying. In very hot weather, unless the hose can be used freely, sheep manure is the better fertilizer to use. For new lawns, Sterling Garden and Lawn Fertilizer can be used to good advantage either alone, using 1000 pounds per acre, or in combination with sheep or cattle manure, working it into the soil before sowing the seed. But this Fertilizer is in so concentrated a form that on old lawns it should never be applied too strong or unevenly, otherwise there is danger of its burning the grass. See our Lawn Booklet for further information, sent free upon request.

For Vegetables and Flowers. Free bearing can be encouraged by judicious use of Sterling Garden and Lawn Fertilizer. Apply in early Spring at the rate of 15 lbs. per 1000 square feet, fork it in well. For late use, sprinkle it carefully around the plants and between the rows. Do not let it touch the plant roots. A teaspoonful or so stirred in the soil about the roots of each plant two or three times during the season will give you astonishing results. Always water plants thoroughly after fertilizing.

For House Plants. A teaspoonful of Sterling Fertilizer dissolved in a quart of water and this solution poured around the roots of house plants will greatly invigorate them. Stir solution while pouring so as to keep it well mixed, and apply as often as the plants seem to need it—say every week or ten days, or until they are as healthy as you wish.

Prices. 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00; 500 lbs., \$12.50; 1000 lbs., \$25.00.

Northrup, King & Co.'s Steamed Bone Meal.



Analysis: Nitrogen, 3.75 per cent; equal to Ammonia, 4.50 per cent; Phosphoric Acid (from bone), 23.00 per cent.

This is finely ground and of first quality; it starts to decompose quickly so results from its use are soon apparent but it does not dissolve so fast as most chemical fertilizers so it continues for a long period its improvement in the soil fertility; it is less likely than other fertilizers to leach or waste. With bone there is no danger of burning the plants. It contains 23 per cent Phosphoric Acid, one of the principal plant foods. Use 3 to 5 pounds of bone meal for each tree and vine when setting it out, working it in well around the roots.

Lawns. For new lawns, use 500 lbs. of bone meal with a ton of sheep manure per acre. This should be plowed under or spaded in, several weeks before sowing the seed. Old lawns, top dress very early in Spring with sheep manure and bone meal mixed, at the rate of 2200 lbs. per acre or 50 lbs. per 1000 square feet.

Field and Garden Crops. $\frac{3}{4}$ to 1 ton broadcasted and harrowed in. This is especially desirable for use with sheep or cattle manure which is rich in nitrogen.

Permanent Pastures and Meadows. Use $\frac{1}{2}$ to 1 ton per acre before growth starts in the Spring. This will stimulate the growth of the plants and result in improving the stand. Its effect will be apparent for several years.

Roses and Flowering Plants. These need a large amount of Phosphoric Acid and it has been demonstrated that ground bone is one of the most useful forms from which to obtain it, since it furnishes both Nitrogen and Phosphoric Acid in slowly available forms. A good mixture for both the field and prepared soils is four parts of ground bone and one of muriate of potash, applied at the rate of four pounds per square rod, and preferably worked into the soil previous to setting the plants; a second application may be made in the Fall at the same rate. For pot plants use one part bone meal to 50 of soil. **Price.** 5 lbs., 25c; 10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.35; 100 lbs., \$2.50; 200 lbs., \$4.50; 500 lbs., \$11.25; 1000 lbs., \$20.00; ton, \$40.00.

Sterlingworth Plant Tablets.

A clean, odorless, concentrated plant stimulant. Their use promotes healthy, vigorous leaves and branches, and insures beautiful, luxuriant flowers. They build up the soil scientifically, and make frequent renewal less important. If you want healthy plants, ferns and fine flowers, these tablets will aid in obtaining them. Trial size box, sufficient for 10 house plants for three months, 10c, postpaid. Box sufficient for 35 plants for three months, 25c, postpaid.

Gypsum or Land Plaster. Excellent for mixing with fresh manure to "fix" the nitrogen, 100-lbs. \$1.00; ton, \$15.00.

Sheep Manure.

Analysis: Ammonia, 2.50 per cent; Phosphoric Acid, 1.50 per cent; Potash, 1.50 per cent.

This is a splendid, complete fertilizer containing the necessary plant foods and is also rich in humus, or vegetable matter. It is excellent for general use either alone or in combination with other special purpose fertilizers. Having been kiln dried, there is little danger from weed seeds. It can be used freely as it is not likely to burn anything. Part of it is very soluble so its effects are usually apparent soon after the application and for a long time afterwards. It is carefully selected, dried, pulverized, and screened.

For Lawns. Pulverized Sheep Manure is a fine fertilizer for the lawn. It should be applied by sprinkling lightly over the grass, much as one would sow grass seed, in the Spring and up to July 15th. It requires no raking in. The color is not conspicuous and there is no objectionable odor. This will nourish the grass, act as a mulch, and tend to prevent the lawn from burning in hot weather. Use 50 lbs. per 1000 square feet or 25 lbs. with 25 lbs. of bone meal. See note on bone meal.

For the Garden. After the crop has been harvested in the Fall, the garden should be given a good coating of Sheep Manure. In the Spring put on another light coat and turn it under, or sow lightly in the rows.

For Public Parks. Sheep Manure is used on some of the best public parks in this country, including the beautiful park system of Minneapolis.

For Truck Garden. Sheep Manure is a good fertilizer for the truck garden, producing better and earlier crops of onions, celery and other vegetables.

Price. Lb., 5c; 5 lbs., 15c; 10 lbs., 25c; 25 lbs., 60c; 50 lbs., \$1.00; 100 lbs., \$1.75; 500 lbs., \$7.50. Delivered free within Minneapolis City limits in lots of 100 to 500 lbs. 1000 lbs., \$15.00; ton, \$27.50.

Cattle Manure.

Analysis: Ammonia, 2.50 per cent; Phosphoric Acid, 1.50 per cent; Potash, 1.50 per cent.

A high grade, natural fertilizer for general use, air dried and prepared so that none of its soil enriching properties are lost. It is especially desirable for making new lawns as it not only contains the essential plant foods but, also is rich in humus, or vegetable matter. Thus it enriches the soil and improves its physical texture, tending to make heavy soil mellow and increase the capacity of the light ones to hold water. There is no danger of using too much cattle manure as long as it is well distributed through the soil and does not come into direct contact with the plant roots.

This is an ideal preparation for run-down city gardens. It may also be advantageously used with special crop, chemical fertilizers as most of the latter become quickly consumed while the cattle manure is more lasting.

Use 500 to 2000 lbs. cattle manure per acre, or 12 to 40 lbs. per 1000 square feet, depending upon local conditions. Apply early in the Spring on your sandy or worn out soil.

Bag. \$1.50; 5 bags, \$6.25; 10 bags, \$11.25. Special prices on large quantities. Delivered free within Minneapolis City limits in 1 to 5 bag lots.

Nitrate of Soda.

Quick in action; used for the nitrogen it contains. It creates rapid growth, is odorless and entirely soluble. It should be applied only when the plants are above ground, usually in combination with other chemical fertilizers.

Nitrogen is the most important element in the production of plant life. When this has become exhausted from the soil, it must be replaced to again insure productivity.

Nitrate of Soda is the best form in which nitrogen can be restored to the soil. It is of special value for early crops such as Peas, Corn, Beets, Cabbage, etc., when rapid maturity is essential, and of great benefit to hay and forage crops, which are unable to obtain sufficient nitrogen from the soil when they most need it. Nitrate of Soda is a great stimulant for the production of Sugar Beets, Potatoes and Sorghum, also small fruits that need a steady, even growth to promote uniform maturity. For further information regarding Nitrate of Soda, ask for Bulletin No. 172, sent free upon application. Lb., 10c; 5 lbs., 35c; 10 lbs., 65c; 25 lbs., \$1.35; 50 lbs. \$2.50; 100-lb. bag, \$5.00;

Excelsior Plant Food.

An odorless, concentrated, soluble fertilizer for house plants. It is immediately soluble in water and available to plant life from the moment of application. Two size packages, directions for use on each. Small size, 15c, (mailing weight, 8 oz.); large, 25c, (mailing weight 15 oz.).

N. K. & Co.'s Sterling Fertilizer No. 3.

For Seed Corn.

Analysis: Ammonia, 2 per cent; available Phosphoric Acid, 9 per cent; Potash, 1 per cent.

Seed corn is one of the most important crops of the Northwest and we doubt if anything will show a larger proportion of profit if properly handled. This special brand will produce results that will surprise you. Use 200 to 300 lbs. per acre. Price, 100-lb. bag, \$2.00; ton, \$37.50.

N. K. & Co.'s Sterling Fertilizer No. 4.

For General Farm Crops.

Analysis: Ammonia, 4 per cent; available Phosphoric Acid, 8 per cent; Potash, 7.50 per cent.

A blend put up especially to meet the demand for a general purpose fertilizer. One that is suitable for all field, farm and grass crops. Distribute from 200 to 300 pounds an acre according to condition of soil. Price, 100-lb. bag, \$4.00; 200-lb., \$7.50.



Root of Grass Showing the Effect of Using Sterling Garden and Lawn Fertilizer.

Suggestions for Profitable Fertilizing

From extensive official experiments conducted during the last fifty years, and the general experience of our customers with every variety of soil, crop, climate and market conditions, the following general applications have proved capable of returning more than 100 per cent net profit on the yearly fertilizer investment for each class of crop.

	Lbs. per Acre
Fertilizer for Grains	200 to 400
Fertilizer for Cotton	300 to 500
Fertilizer for Fruit	500 to 1,000
Fertilizer for Vegetables	800 to 1,600
Fertilizer for Tobacco	300 to 800
Fertilizer for Potatoes	300 to 500

If the same crop is grown on the land for more than one year at a time, it pays handsomely to fertilize each year. If a crop of green clover or other legume is plowed under to supply humus and nitrogen, then the succeeding grain or hood crops can be even more profitably fertilized with a complete fertilizer to keep the soil in proper balance.

If soil moisture is normal in the growing season, due to climatic conditions or control by proper tillage, Swift's Fertilizers are profitably applied at seeding time. If the moisture is irregular in the growing season land should be plowed early enough in the Fall to permit cultivation, and then the fertilizer can be more profitably applied in the Fall, after plowing, and thus time and money saved at seeding time.

Swift's Vegetable and Beet Grower (2-10-1)

Guaranteed Analysis

Equal to Ammonia	2.00 per cent
Phosphoric Acid, available	10.00 per cent
Potash (K ₂ O, actual, from Sulfate)	1.00 per cent

An all around truck brand. Also good for Corn, Wheat and Oats.

Ton, \$37.50; Bag, 125 lbs., \$2.65.

WINTER AND SPRING FLOWERING BULBS.

MUST BE PLANTED IN THE FALL. ORDERS FOR BULBS WILL BE FILLED IN OCTOBER.

Our Autumn Catalogue, ready in August, includes a full and complete list of bulbs. Sent to any address on request. Six bulbs of a kind at the dozen rate; 25 at the 100 rate.

Hyacinths.

Sterling Mixed in Separate Colors for Bedding and Forcing.

If wanted by mail, add for postage, to prices below, 1c per bulb, or 12c per dozen.

Single. Any of the following colors, Rose and Pink, Dark Red, Pure White, Dark Blue, Light Blue or Yellow. Each, 5c; doz., 50c; 100, \$3.50.

Single, all colors mixed. Each, 4c; doz., 45c; 100, \$3.25.

Double. Any of the colors named above. Each, 6c; doz., 60c; 100, \$4.00.

Double, all colors mixed. Each, 5c; doz., 50c; 100, \$3.50.

Sterling Named Hyacinths for Bedding or Forcing.

Extra Selected Bulbs.

Fancy, named varieties in shades of pink, white and deep blue. Each, 7c; doz., 75c; 100, \$5.00. If wanted by mail, add 1c per bulb, or 12c per dozen for postage.

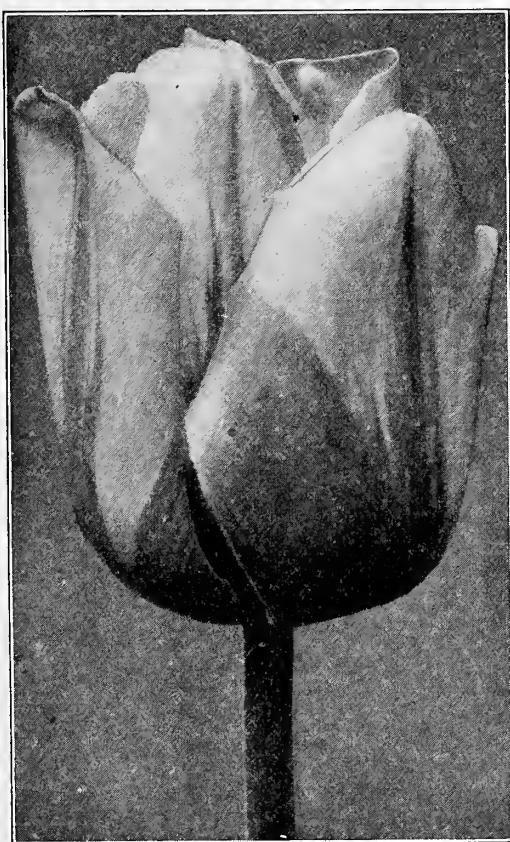
Tulips.

Sterling Mixed Early Single for Bedding.

We have taken particular care for years in the handling of our Sterling Mixtures and our customers can depend upon receiving the pick of the crop, unsurpassed for quality and size, and sure to please the most critical. Doz., 40c; 100, \$2.75; 1000, \$25.00. If by mail add 5 cents per dozen for postage.

Extra Fine Single Mixed Tulips.

A very superior mixture of large and brilliantly colored flowers. It is made up of varieties which flower together and grow the same height. Each, 3c; doz., 25c; 100, \$1.75; 1000, \$15.00. If wanted by mail, add 5c per dozen for postage.



Single Tulip.

Swift's Fertilizers.

Swift's Superphosphate (2-8-2)

Guaranteed Analysis

Nitrogen	1.65 per cent
Equal to Ammonia	2.00 per cent
Phosphoric Acid, available	8.00 per cent
Phosphoric Acid Insol. (from bone)	1.00 per cent
Potash (K ₂ O, actual)	2.00 per cent

Our Banner Brand. The best general crop producer on the market. It gives the plant an early start and insures a continuous, healthy growth up to and including maturity, and shows marked results on following crops. It adds to the fertility of the soil.

For all crops, particularly Corn, Wheat, Oats and Timothy.

Ton, \$37.50; Bag, 125 lbs., \$2.65.

Swift's Special Grain Grower

(2-12-0)

Guaranteed Analysis

Ammonia	2.00 per cent
Phosphoric Acid, available	12.00 per cent

This brand of fertilizer is recommended for Corn, Oats, Barley and Rye. The phosphoric acid in this fertilizer is all readily available, with just enough available nitrogen added to give the plant a quick, early growth, an ideal fertilizer for the average Northwest soil. Apply 250 lbs. per acre. Ton, \$33.50; Bag, 125 lbs., \$2.25.

Swift's Special Wheat Grower

(3-13-0)

Guaranteed Analysis

Ammonia	3.00 per cent
Phosphoric Acid, available	13.00 per cent

Wheat responds very quickly to available nitrogen and this fertilizer is especially adapted to the Northwest soils for Spring wheat. A portion of Nitrogen is in an available form to give the plant a quick, early growth, while the balance of the nitrogen is of organic origin, which gives the plant a healthy, steady growth throughout the growing season. An application of 250 lbs. per acre is recommended for the average soil. Ton, \$37.50; Bag, 125 lbs., \$2.65.

Swift's Ground Dried Blood

(16-0-0)

Guaranteed Analysis

Nitrogen	13.18 per cent
Equal to Ammonia	16.00 per cent

Where a highly concentrated Ammoniate is required, Swift's Ground Dried Blood is the best to use. There is no loss from leaching as there is from Nitrate of Soda and Sulphate of Ammonia. It is quickly available without any reaction.

This is the ideal fertilizer for florists and greenhouse culture, for flowers and early market vegetables and for conservatories. Use 5 pounds per 100 square feet, or half pound per square yard of surface soil.

Ton, \$80.00; 100 lbs., \$4.25; 50 lbs., \$2.25; 25 lbs., \$1.25; 10 lbs., 60c; 5 lbs., 35c; lb., 10c.

Swift's High Grade Acid

Phosphate

Guaranteed Analysis

Available Phosphoric Acid 16.00 per cent

Valuable for Winter Wheat, Rye, Barley, Clover, Alfalfa, Field Beans, Field Peas and all crops needing available phosphoric acid. Should be sown broadcast at a rate not to exceed 500 lbs. to the acre.

Ton, \$27.50; Bag, 125 lbs., \$2.00.

Swift's Champion Wheat and Corn Grower (2-12-2)

Guaranteed Analysis

Nitrogen	1.65 per cent
Equal to Ammonia	2.00 per cent

Phosphoric Acid, available	12.00 per cent
Phosphoric Acid, Insol. (from bone)	1.00 per cent

Potash (K₂O, actual) 2.00 per cent

A very high grade fertilizer for Corn, Wheat, Rye and Oats, and good for all crops. Its results are lasting.

Ton, \$44.00; Bag, 125 lbs., \$3.00.

Sterling Named Single Tulips for Bedding and Forcing in Pots.

Prices for single bulbs include postage. 25 bulbs and upwards are sent by express at purchaser's expense. If wanted by mail, add 5c per dozen for postage.

D, dwarf; M, medium; T, tall.

Artus. D., early. Bright scarlet, very fine bedding sort. Doz., 25c; 100, \$1.50.

Belle Alliance. D., early. Scarlet, very choice. Doz., 35c; 100, \$2.25.

Cardinal's Hat. M., early. Dark brownish red. Doz., 25c; 100, \$1.50.

Cottage Maid. D., early. Rose with white flush, a most beautiful variety. Doz., 30c; 100, \$1.75.

Dusart. M., early. Dark scarlet, a large, grand flower. Doz., 30c; 100, \$2.00.

Keizerskroon. T., early. Crimson-scarlet, edged bright yellow; large flower. Doz., 40c; 100, \$2.75.

La Reine. M., very early. White, slightly shaded rose, very good forcer or bedder. Doz., 30c; 100, \$1.75.

Yellow Prince. D., early. Pure yellow, rose-scented. The best yellow for pot culture, beds and borders. Doz., 30c; 100, \$2.00.

Sterling Mixed Double Tulips.

First size bulbs of such varieties as will blossom about the same time and of about the same height. Unequalled for quality and size. Doz., 40c; 100, \$2.75. By mail, dozen, 45c.

Fine Double Mixed Tulips.

The colors are blended in proportion and of the same blooming period. Doz., 25c; 100, \$1.75. By mail, dozen, 30c.

Sterling Mixed Darwin Tulips.

Of unusual brilliancy of color, growing 24 to 30 inches high. Fine for bedding or cutting. Doz., 30c; 100, \$2.00. By mail, dozen, 35c.

NORTHRUP, KING & CO.'S STERLING Poultry FEEDS

Prices subject to market fluctuations in value. We deliver within city limits of Minneapolis orders for \$2.00 or over.

Sterling Poultry Feeds.

Our Sterling Poultry Feeds are economical to use because they contain only good, clean materials mixed in the proper proportions to make balanced rations for your birds at every age.

They will help your baby chicks grow rapidly, develop strong constitutions and round out into splendid pullets and cockerels.

For full grown stock you must supply feed which will not only nourish their bodies but also enable them to lay eggs. Corn alone makes fat, but very few eggs. Use Sterling Poultry Feeds for the "full egg basket."

We are now selling over 2000 tons of these feeds annually, with very little advertising. We maintain our standard of quality regardless of market changes in price of grain. See our Red Figure Price List for latest quotations.

Peep o' Day Chick Meal.

Reg. U. S. Pat. Off.

The ideal food for baby chicks. A scientifically balanced ration to nourish chicks perfectly. Contains the proper ingredients to make bone, muscle, and good red blood. Should be fed the first three weeks in combination with Sterling Baby Chick Starter. This may be fed wet or dry but dry feeding is recommended. Feeding directions on each package. 3-lb. carton 25c.

Northrup, King & Co.'s

Sterling Baby Chick Starter.

To be fed the first three weeks.

A wholesome, ready prepared, starting food which will nourish the chicks so they can make rapid growth. Contains the necessary materials to form bone and feathers. Start feeding this when they are 36 hours old, give plenty of water and occasionally lettuce, or other tender greens. For the first few days the chicks should be fed every few hours, just what they will eat up clean each time. Be careful not to overfeed. If chicks are in a brooder, scatter feed in Alfalfa meal or other clean litter so the baby birds will have to scratch for it. Avoid letting the chicks become chilled or overheated.

Sterling Baby Chick Starter is prepared both with and without grit. See Red Figure Price List for current values.

Northrup, King & Co.'s

Sterling Chick Feed.

For chicks three weeks old and over. Like our other Sterling feeds this mixture embraces a fine combination of seeds, grains, in addition to ground bone and fine meat scrap. It gives the chicks quick growth and tends to keep them in good health. To properly develop the chick, either for market or to become a producer of eggs it must be fed such food as will promote growth quickly and uniformly.

Use Sterling Chick Feed, clean utensils and see that brooding conditions are right. Provide some shade in the runs during warm weather, and give plenty of tender greens. If milk is used always feed it sweet or sour, but do not keep changing, or it will cause indigestion. Buttermilk gives fine results. Let your chicks have plenty of exercise, make them scratch for their feed, but do not let the old hen lead her small chicks all over the farm. Keep the mother penned up until the chicks get strong.

Sterling Chick Feed is rich in protein which makes flesh and blood; it contains plenty of organic ash, which builds up bone. This is put up both with and without grit. See prices in Red Figure Price List.

Northrup, King & Co.'s

Sterling Hen Feed.

A splendid, well balanced feed, containing several kinds of grain, and oil meal. This feed supplies the variety which hens need, since they always do better on a good mixture of grains than where just one or two are used. This is especially true of laying hens, and we strongly recommend this feed to everyone who desires to make the most out of his flock. Keep your hens exercising freely if you want them to lay eggs. Besides this feed the flock should be given oyster shell (or lime in some other form), charcoal and green food.

For winter egg production the flock should receive Sterling Hen Food twice, daily and have access to Sterling Poultry Mash, which supplies the protein the hens require to stimulate egg laying in the cold weather. Prepared both with and without grit. See Red Figure Price List.

Northrup, King & Co.'s

Sterling Scratch Feed.

It is composed of grains and seeds, oil meal, etc. Each item is included in the proper proportion to make up a well balanced ration.

This mixture is a trifle lower in protein than our Sterling Hen Feed but contains more kinds of grain. Where the poultryman must buy all his feed it would be well for him to use both the Sterling Hen and Sterling Scratch Feeds for the sake of variety, feeding them alternately. For the man who raises part of his grain feed, either Sterling Hen or Sterling Scratch Feed would be satisfactory to use.

For winter eggs keep the hens on dry ground or indoors on deep litter where they will have to scratch for the grain. A busy, working hen will not become too fat. Sterling Scratch Feed will help your flock "shell out" eggs. Prepared both with grit and without. See Red Figure Price List.

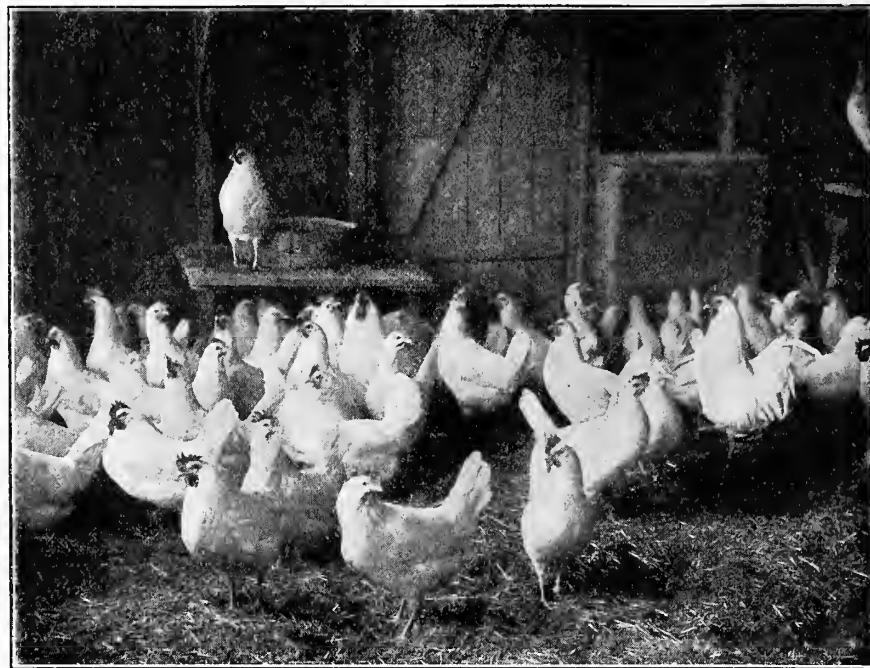
Make Your Flock Pay.

Kill your surplus roosters, and hens over two years old.

Feed a well balanced ration such as Sterling Hen Feed and Mash.

Give your hens grit and shell so their food will digest well and not go to waste.

Meat stimulates egg laying; feed Sterling Meat Scraps and Meat Meal for this purpose.



A Well Fed Flock of White Leghorns.

Northrup, King & Co.'s Sterling Pigeon Feed.

We use as much care in preparing this mixture as in the Sterling Chick and Hen Feeds. It is composed of bright, plump grain and seeds,—including field peas, cracked flint corn, wheat, millet, etc. It is rich in protein and will quickly develop growing squabs, forming choice white meat. It is also a splendid food for homing pigeons as it is rich in muscle and strength building material. Sterling Pigeon Feed makes an ideal food for the entire loft, both old and young. See Red Figure Price List for present price.

Northrup, King & Co.'s
Sterling Poultry Mash.

A high protein mash for baby chicks or laying hens. It contains bran, meat meal, ground bone, middlings, alfalfa meal, oil meal and pure ground grains. This is the very finest mixture we can prepare, regardless of price.

It has been demonstrated by numerous tests that hens lay a great many more eggs when part of the feed is given in a mash form. Sterling Poultry Mash contains the essential ingredients of the mash feeds used at the Australian Egg Laying Competition. It corresponds closely to the mashes recommended by the many state experiment stations but contains greater variety than most of them.

This mash may be fed dry or wet. Moisten with sour milk, buttermilk or water. Be careful not to overfeed when using it wet, a lump the size of a walnut is sufficient for a hen. Always have the feed troughs perfectly clean and never throw wet mash on the ground, or it will cause disease. When used dry the birds will not eat too much so it can be kept constantly before them.

Sterling Mash is unexcelled for baby chicks, but it is best to feed it to them dry. For young stock or laying hens it will surely produce pleasing results. If you mix it with buttermilk you will have a mash that cannot be improved upon for winter eggs. Chopped vegetables or greens may be added to the mash or fed separately, but since the mash contains ground alfalfa, not so much other green food is required. Prices quoted in Red Figure Price List.

All Grain Chick Feed.

This mixture supplies the demand for an all grain chick feed. It contains nothing but pure grains, sound and sweet, blended in the proper proportions. For chicks in the brooder or small runs we recommend our Sterling Chick Feed which is a more complete mixture.

All Grain Chick Feed is the right size for chicks over three weeks old and is especially prepared for feeding chicks which have a good run in which they can pick up insects or worms to supply their demands for some form of meat. Contains no grit or shell. Put up only in 100 lb. sacks. See Red Figure Price List for current values.

All Grain or Star Hen Feed.

A first class, pure grain mixture containing no shell, grit or bone. This will be found a splendid feed to use in combinations with table scraps, fresh ground bone or some other feed, rich in animal protein. The fowls should also have plenty of grit and shell. See Red Figure Price List.

"Profitable Poultry."

This booklet is a brief outline of poultry management, including housing, feeding, hatching and general care. It is prepared especially for the farmer and others who are interested in poultry as one branch of their business.

These booklets are 10c each. Upon request a copy will be included free with orders for poultry feeds or supplies.





Northrup, King & Co.'s
Sterling Egg Starter.

A fine tonic and conditioner for moulting hens, birds just through moulting or those that are unthrifty for any other reason. Sterling Egg Starter stimulates the egg-making organs into healthy action. Directions on the package suggest how to use it for best results. If your hens are too fat they will not lay, even if you do give them a tonic. Such birds should receive less corn, more meat and be compelled to work for all the food they get. Then, feeding them Egg Starter will help them to get into condition. Price, 2-lb. carton 25c; 5-lb. carton, 50c; 25-lb. pail, \$1.45.

Northrup, King & Co.'s

Sterling Granulated Bone.

Made from fresh, green bones, which have the moisture, grease etc., extracted from them, leaving nothing but phosphate of lime and protein. Will keep in any kind of weather if kept dry. This bone is prepared especially for our trade.

This food is rich in protein and lime and it is well to keep it constantly before the birds so they can eat it freely. There is no danger of their overeating Sterling Bone. For growing chicks it should be fed with the grain so we include it in our Sterling Chick Feed. Sterling Granulated Bone comes in a fine size for chicks or mixing in a mash and coarse for hens. State whether you want fine or coarse ground. See Red Figure Price List for present values.

Northrup, King & Co.'s

Sterling Meat Scraps.

Meat scraps are rich in protein, the material which makes muscle and lean meat. Contain 50 per cent protein. Will keep in any climate under all conditions. We guarantee our Meat Scraps to be pure and free from any adulteration. They are manufactured especially for us and are fully up to the high quality of our Sterling Brand.

It is important that growing birds and laying hens have meat protein in some form, otherwise chicks will not develop properly and hens will not lay. In the fields the flock can pick up insects, worms and grubs but birds in small runs or laying houses must have a substitute. Hens should not be allowed to eat too much Meat Scraps, so it is best to mix them in the grain or mash mixture. They are a forcing food tending to make hens lay, but are so rich that a little of them goes a long way. See Red Figure Price List enclosed in this catalogue.

Darling's Meat Crisps. Contain 75 per cent protein, or 50 per cent more than Meat Scraps. These are made from fresh meat trimmings, taken from the meat markets, immediately cooked, and dried under pressure. They are always sweet and clean and will keep perfectly under any conditions where ground grain will remain sweet. Use as directed for Meat Scraps but as Meat Crisps are richer they will go farther. Sold in packages only, 3 lbs., 25c; 6½ lbs., 50c.

Blatchford's Milk Mash. A fine mash for poultry of all ages, especially baby chicks as it promotes rapid, healthy growth. See Red Figure Price List.

Blatchford's Egg Mash. This is a high grade poultry mash and egg producer. See Red Figure Price List.

Blood Meal. A standard high protein preparation. This is guaranteed pure, free from adulteration and objectionable odors. A small quantity should be fed to the poultry occasionally to keep them in good health. See Red Figure Price List for prices.

Gluten Meal. Very rich in protein, usually containing about 40 per cent. This is of great value for increasing the protein in ground grain mashes. See Red Figure Price List.

Ground Flax With Oil. feeding sheep, growing calves and steers as it has a very good effect upon their digestion and will aid them to gain weight rapidly. It has a much higher feeding value than oil meal. See Red Figure Price List.

Old Process Oil Meal. Aids digestion and assimilation of food. As it contains 36% of protein, it is combined with grains and other food so as to make a balanced ration. Improves the health, vigor and appearance of poultry. This comes in two sizes. State whether you wish fine or pea size. See Red Figure Price List.

Kaffir Corn. A very valuable food for poultry, pigeons, etc. Its nutritive value is about the same as corn. It is especially desirable for feeding baby chicks. Bags contain about 150 lbs. See Red Figure Price List.

Unmixed Grains.

See Red Figure Price List giving current price of each kind.



Barred Plymouth Rocks like Sterling Feeds.



Bird Seed.

The following prices are for fancy quality except where noted. These seeds have been prepared for feeding canaries, parrots and pet stock.

Bird Millet, 1b., 10c; 3 lbs. 25c; 25 lbs. for \$1.20; 50 lbs. \$2.10; 100 lbs. \$4.00.

Bird Rape, 1b., 15c; 3 lbs. 40c; 25 lbs., \$2.65; 50 lbs. \$5.00; 100 lbs., \$9.80.

Canary, 1b., 15c; 3 lbs., 40c; 25 lbs., \$2.15.

Hemp, 1b., 10c; 3 lbs., 25c; 25 lbs., \$2.00.

Sterling Brand Mixed Bird Seed in 1b. cartons, each, 20c.

Sunflower Seed, Fancy, 1b. 10c; 3 lbs. 25c; 6 lbs. 50c; 25 lbs. \$1.55; 50 lbs. \$2.95.

Above prices are F. O. B. Minneapolis, if wanted by mail add for postage at

parcel post rates. For large quantities of any of these seeds, write for special

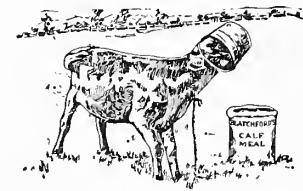
quotations. All prices subject to market changes.

Bird Manna. A combination food, stimulant and medicine for cage birds.

It will help to carry them through the moult without the loss of song.

Price, 15c each, postpaid.

Blatchford's Calf Meal. The Perfect Milk Substitute.



Licks the Pail Clean.

This is a concentrated, dry substitute for milk which is being successfully used all over the country by dairy farmers and others who believe that milk is too valuable to feed to calves. This calf meal or milk-equal, when mixed with skim milk or water to the proper consistency is very similar to milk and contains all the elements of milk—protein, fat, and fiber, moisture and ash in the correct proportions. Every pound makes a gallon of sweet, wholesome milk equal. The expense is less than milk so it is economical to use. It is made from locust bean meal, pure flaxseed ground and with the oil left in, wheat flour, ground beans and peas, oil meal, cocoa shells, coconut meal, fenugreek, dried milk and salt.

Blatchford's Calf Meal is not a new discovery but

has been used for many years. A trial will convince

you of its merit. See Red Figure Price List.

Blatchford's Pig Meal.

Nourishes young pigs splendidly. See Red Figure Price List.

Cotton Seed Meal.

Not recommended for calves or pigs but is very useful for feeding dairy cows as it is very rich in protein, containing 38.6 per cent, and may be combined with other ground grains to form the grain ration. See Red Figure Price List.

Digestor Tankage.

Contains 60 per cent protein. This is extremely valuable for pigs. See Red Figure Price List.

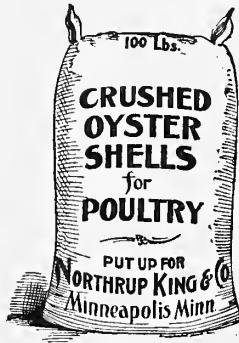
Discounts on Quantity Orders.

On orders for our mixed poultry feeds, including Sterling Baby Chick Starter, Sterling Chick Feed, Sterling Hen or Scratch Feed, All Grain Hen or Chick Feed, Mixed Feed for Poultry, Sterling Pigeon Feed, and Sterling Mash, amounting to 1000 lbs. we will allow 5c per 100 lbs. from single bag prices. If your order amounts to 2000 lbs., we will allow you 10c per 100 lbs. discount, from single bag prices. You are entitled to these discounts if your order for these feeds is for one kind or a combination of the kinds named above. This special discount does not apply to oyster shells, grit or other items not specifically named in the list above.

Alfalfa Meal. Made from new crop, pea green, kiln-dried Alfalfa hay. This is more valuable than clover meal and is highly recommended by prominent and successful poultry men. It contains a large per cent of protein and furnishes green feed in Winter when green food is scarce. This may be mixed in with the mash, or moistened slightly with hot water. Then allow it to steam an hour before feeding. Alfalfa Meal is also widely used as litter for the brooder and chick pen since it is a good absorbent and does not injure the baby chicks if they eat it. 10 lbs., 30c; 50 lb. sack, \$1.00; 100 lb. sack, \$1.80.

Charcoal. This is an excellent regulator to keep fowls healthy. Have it constantly before them. Nothing takes the place of charcoal in this respect, as it purifies the blood, aids digestion and tones up the whole system. No matter whether your fowls are young or old, give them an occasional feed of charcoal. Two sizes, fine and coarse. 2 lb. package, 13c; 50 lbs., 90c; 100 lb. sack, \$1.60.

Northrup, King & Co.'s Sterling Crushed Oyster Shell.



Hens must have lime in some form to furnish egg shell material. If you are having trouble with your flock laying soft or thin shelled eggs you should start feeding Oyster Shell immediately to remedy this condition. Crushed Oyster Shell is practically pure lime carbonate so there is almost no waste. It also tends to keep the hens from eating eggs. Old egg shells should never be fed to poultry as this is likely to get them started in the habit of egg eating. When you buy 100 lbs. of Sterling Brand Crushed Oyster Shells, you get 100 lbs. of shells, not 15 to 20 lbs. of dust and dirt mixed in, as our brand is specially cleaned. Every poultry house or yard should have a pan or trough full, so that the fowls can have access to them at all times. Our price, bags included, 10 lbs., 15c; 50 lbs., 45c; 100 lbs., 70c. Please state whether you wish the coarse for hens, or fine for chicks when ordering.

Write for special price on ton lots.

Crushed Clam Shell. Thicker and harder than oyster shell and is used quite extensively on that account, acting both as a food and grit. The percentage of carbonate of lime is less than in Oyster Shells and is, therefore, less desirable. Our prices are very low. 10 lbs., 15c; 50 lbs., 45c; 100 lb. sack, 60c.

Mica Crystal Grit. Poultry, having no teeth should be kept constantly supplied with some sharp material to grind their food. Mica Crystal Grit is not only sharp and hard, but its properties are such that it acts as a tonic and contributes largely to the health and productive power of the fowl. Grit is just as necessary to newly hatched chicks as to older poultry as without it they cannot grind food. We have hen, pigeon and chick size. State which is wanted. Price, 10 lbs., 15c; 50 lbs., 45c; 100 lbs., 65c.

Pearl Grit. A clean, sharp grit containing elements both helpful and necessary for the proper nutrition of food and production of eggs. It is white in color and contains no dirt, causing no waste. Please state whether you want fine or coarse, when ordering. Price, 10 lbs., 15c; 50 lbs., 45c; 100 lbs., 65c.

Crys-Co. A grit and shell producer combined. It is composed of molluscan shell formation or petrified shell, crushed to the proper sizes for hens, chicks and pigeons. Contains 99 per cent pure carbonate of lime, and 1 per cent flinty matter, the lime forming shell, with enough grit to grind the food and aid digestion. It makes hard shells, thus increasing the hen's laying power. Hens that lay soft shelled eggs usually acquire the habit of eating them, but by the use of Crys-Co this danger will be largely overcome. Feed the same as Oyster Shells or grit. Please state whether you wish fine or coarse when ordering. Price, 65c per 100 lb. bag.



French's Poultry Mustard.

F. O. B. Minneapolis.

French's Poultry Mustard is manufactured expressly for use with poultry and is different from the ordinary table mustard in its preparation and constituents. It is a splendid conditioner for moulting birds and a fine stimulant for egg laying. Mustard is now in general use at many large poultry farms. One teaspoonful for every six fowls is the right quantity; mix it with the mash.

200 lb. Barrel	per lb. 18 $\frac{1}{4}$ c	10-lb. Box	per lb. 21c
100 " Keg	" 19c	5-lb. "	22c
50 " "	20c	3-lb. "	22c
25 " Pail	21c	1 $\frac{1}{2}$ -lb. "	40c

Keeping Poultry Healthy.

Some say the best medicine for a sick chicken is the axe. This is sometimes true, but if it is a case of a whole flock being sick it means a big loss. Preventive measures are best.

In the Summer the birds should have a shady yard where they can find plenty of green feed. If a run is attached to the poultry house it should be divided so that a crop can be grown in one part while the birds are eating a green crop in the other. Rape, Oats and Wheat are excellent green crops for this purpose. Alfalfa is splendid as it is a high protein feed in addition to its tonic properties. If a wire nest is placed over each Alfalfa plant it will prevent the hens from injuring the plant and the young shoots will grow up through the wires.

For shading the yard, Sunflowers are the best annual plant, while plum trees are best for permanent planting. Keep the poultry house dry and free from lice, do not overfeed the flock; give them pure water and some kind of succulent food all Winter—Cabbage, roots, or Alfalfa. The birds should have all the grit, shell and charcoal they need.

At the first symptom of illness isolate the sick birds at once so they cannot spread contagion through the flock. Then disinfect everything thoroughly with Noxicide. It always pays to keep Conkey's Roup, Cholera and White Diarrhoea Remedies on hand. When any of these troubles start, quick treatment is most important.

Conkey's Remedies are perfectly reliable and complete directions accompany every package. Conkey's Poultry Book containing much valuable information will be sent free upon request.

Booklet on "Poultry Profits," containing information of value about the raising and care of poultry, sent without charge with orders, if requested.



Conkey's Poultry Remedies and Insecticides.

Conkey's Poultry Remedies.

We offer a specific remedy for each disease. The importance of prevention by the use of a germicide, like Nox-i-cide, should not be underestimated. This line is complete and very reliable.

Conkey's Roup Remedy. For fowls that sneeze, gasp and wheeze, also have a watery discharge from the nostrils and eyes. Follow directions on box to effect a cure. Powder or Pills. Three sizes, 25c, 50c and \$1.00, postpaid.

Conkey's Cholera Remedy. Placed in drinking water. Directions on every box. Two sizes, 25c and 50c, postpaid.

Conkey's Lice Powder. Will successfully kill body lice on fowls. 5 oz. package, 10c, (postpaid, 15c); 15 oz. pkg., 25c, (postpaid, 40c); 3 lb. pkg., 50c.

Conkey's Lice Liquid. Will kill mites and act as a disinfectant. Applied to walls, roosts and crevices with a brush or sprayer. Qt., 35c; $\frac{1}{2}$ gal., 60c; gal., \$1.00.

Conkey's Poultry Conditioner. For fowls run down, off feed, recovering from disease or during moulting season. Price, 25c, (postpaid, 30c).

Conkey's Poultry Laxative. Price, 25c, postpaid.

Conkey's Poultry Tonic. Not a food, but a medicinal preparation to increase egg production. Keeps hens in the best laying condition. 1 $\frac{1}{2}$ lb. package, 25c; 3 $\frac{1}{4}$ lb. pkg., 50c; 12 lb. pail, \$1.60; 25 lb. pail, \$3.00.

Conkey's Noxicide. A wonderful disinfectant and germicide. Fine for many purposes—cleaning incubators and brooders, washing founts and troughs and spraying wherever lice, mites or germs are present. Pint, 35c; qt., 60c; $\frac{1}{2}$ gal., 90c; gal., \$1.50.

Conkey's Bronchitis Remedy. Price, 50c, postpaid.

Conkey's Chicken Pox Remedy. Price, 50c, (postpaid, 55c).

Conkey's Limber Neck Remedy. Price, 50c, (postpaid, 55c).

Conkey's Rheumatic Remedy. Price, 50c, (postpaid, 55c).

Conkey's Black Head Remedy. Price, 50c, postpaid.

Conkey's Poultry Worm Remedy. Price, 25c and 50c, postpaid.

Conkey's White Diarrhoea Remedy. Price, 25c and 50c, postpaid.

Conkey's Fly Knocker. Qt., 35c; $\frac{1}{2}$ gal., 60c; gallon, \$1.00.

Conkey's Scaly Leg Remedy. Price, 25c, postpaid.

Conkey's Gape Remedy. Price, 50c, (postpaid, 60c).

Conkey's Healing Salve. Price, 25c, postpaid.

Conkey's Head Lice Ointment. Price, 1 oz., 10c; 3 oz., 25c; postpaid.

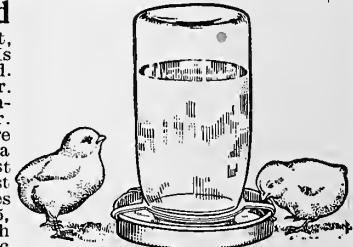
Conkey's Canker Special. Price, 50c, postpaid.

Germozone. Use for roup, colds, canker, swelled head, bowel complaint, etc. A little, twice a week in the drinking water, will keep crop, stomach and bowels in order. Roup, in early stages, can generally be cured in two or three applications. Use Germozone in any case of sickness of fowl, chick, bird, dog, cat or other pet animal, by giving it in drinking water at a proportion of one tablet to a quart of water. In case of serious illness follow the directions given in the pamphlet accompanying each package of Germozone.

Germozone is prepared in tablet form at 50c per package.

N. W. Fountain and Feeder.

Feeder. Feeds water, grain, grit, etc., automatically. Is easy to fill and operate, as illustrated. Pan is released by lifting trigger. Very easy to clean. A sanitary fountain. Will fit any size Mason jar. No jars furnished by us. Pans are constructed of heavy iron with a double lead coating. Will not rust or corrode. These pans will outlast several tin or galvanized pans, besides being more sanitary. Prices, No. 5, 5 inch pan, each, 15c; No. 6, 6 inch pan, each, 20c. If by mail, add 3c each for postage.



N. W. Fountain and Feeder.



Moe's Top Fill Drinking Fountain.

Moe's Top Fill Drinking Fountain. The cause of many poultry troubles is traceable to impure water, due to contamination from the birds themselves. Moe's Top Fill Fountains reduce this danger, as they always supply just enough pure water. Constructed with dead air space, which keeps water cool in Summer and warm in Winter. Simple in construction and easily cleaned. Remove cover and fill from the top. Never slops over, and keeps water fresh all the time. Constructed of heavy galvanized iron; will not rust. Can be furnished in the following different styles at prices named. For poultry; 1 gal., \$1.00; 2 gal., \$1.50; 4 gal., \$2.00. Strong, metal hanger for adjusting to side of wall furnished for 15c each, extra.

RED FIGURE PRICE LIST.

Whenever you are in the market for Poultry Feeds, Meat Scraps, Grit or Shell, write for Red Figure Price List which will give you the current prices on all these goods.



Duplex Poultry Marker. Punch is reversible as shown, giving practically two tools for the price of one. Handle nicely nickel-plated and polished, and the marker complete weighs $\frac{1}{2}$ ounce. Price, 25c each, postpaid.

Philadelphia Poultry Marker.

It is very important to keep a careful record of the different hatches of chicks and no better way has been devised than by the use of this little machine. Over 200 different marks can be made by punching between different toes. It is made in two sizes, one for chicks and one for adult fowls. The sizes are shown by the black dots on the side of the illustration. Price, each, postpaid, 25c. State which size is wanted.

Poultry Punch. Made on the plan of a ticket punch. It makes a sharp, clean cut, thus avoiding injuring or tearing the web. It is so constructed that it cannot pinch or bind. Very strong and durable. Each, 50c, postpaid.



Philadelphia Marker.



Leader Adjustable Leg Bands. Has a very neat, compact and smooth fastening. Easily attached, absolutely secure and has no catching points. Made from heavy aluminum and is strong and substantial and will hold its shape. Made in two sizes; No. 1 for Bantams or Mediterraneans, No. 2 for Americans to Asiatics and turkeys. Not made in pigeon sizes. Numbered only 1-12, 1-25, 1-50, 1-100. Always give sizes and state how bands are to be numbered. Prices: Doz., 17c; 25 for 30c; 50 for 55c; 100 for 90c; 250 for \$2.15; 500 for \$4.05; 1,000 for \$7.85, postpaid.

Continental Egg Carrier. A convenient carton having a protected pocket for each egg. When folded up, a twist of the twine about the clasp fastens it securely. These carriers come flat and require no assembling. They are very convenient for delivering eggs and may also replace the common fillers in egg crates. Each, 2c, in small lots; 250 for \$3.00; 1000 for \$10.00.

Anti-Shock Shipping Cases for Continental Carriers.

Without Carriers. 1 Doz. Size, 50 for \$3.00
2 Doz. Size, 25 for 2.40
4 Doz. Size, 25 for 3.90

With Inside Carriers.

1 Doz. Size, 50 Boxes and 50 Carriers \$4.20
2 Doz. Size, 25 Boxes and 50 Carriers 3.60
4 Doz. Size, 25 Boxes and 100 Carriers 5.70

Diamond Egg Carrier. Saves Money in Cost, Time, Safety, Space, Weight, Express.



Diamond Egg Carrier.

Each package contains one dozen egg carriers, complete, with address labels, gum paper and tissue paper.

The 25 to 30 egg size carriers are made of single and double corrugated board. For long trips or very rough handling the double board carriers are safer.

No orders taken for less than 1 dozen.

	Single Doz.	Double Doz.
15 Egg size		\$1.95
25 Egg size	\$2.70	3.00
30 Egg size	3.00	3.25
9 Egg size for turkey and goose	1.70	2.00

Sold Only in Full Packages.

Egg Testers.

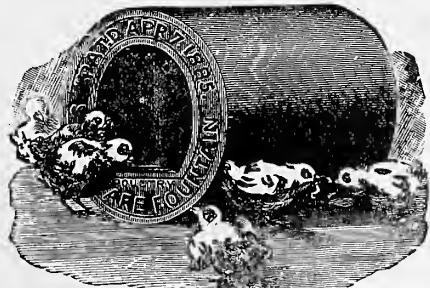
It is desirable to test eggs after they have been in the incubator seven days, and again on the twelfth day, removing all those that are infertile or with a dead germ. The tester is also useful in candling eggs before selling them. This is

Egg Tester.

made the proper size to fit a common No. 1 burner. Each, postpaid, 35c; by express or freight, at buyer's expense, 30c.

Stone Drinking Fountain.

These require little description. They are strong and so made that they cannot be overturned. They are easily filled and kept in sanitary condition. Prices: $\frac{1}{2}$ gallon, 25c; gallon, 35c; 2 gallon, 45c. Unless ordered with other goods add 10c each for packing charges.



Stone Drinking Fountain.

Excelsior Drinking Fountain. It is highly important that poultry be given plenty of pure drinking water and that it be kept in clean containers. Those fowls having disease will contaminate the rest of the flock, unless the water is kept sanitary. The Excelsior Fountain is made of heavy galvanized iron, easily cleaned and filled. Made in four sizes. Two styles, flat or conical top. Price, quart, 20c; $\frac{1}{2}$ gallon, 35c; gallon, 50c; 2 gallons, 75c.

Automatic Drinking Fountain. Made to fit any size Mason jar. Can be set anywhere, on floor, pigeon loft, in brooder or fastened to wall. It will not turn over and chicks cannot drown in it. Easily cleaned. Aluminum, cannot rust or crack. Jars not furnished. Each, 25c (postpaid, 30c).

Combination Food and Water Fountain.

Most popular and best fountain ever invented for little chicks. Keeps water clean, sweet and cool, chicks can not get wet or chilled in it, better than a dozen roup cures on this account.

Makes an A1 brooder fountain, and on account of being hung up it is impossible for chicks to tip it over and spill contents. Feeds either water or grain, grit, oyster shells, etc., and with the glass receptacle you can always see at a glance the amount of food or water left in the fountain. They are easily cleaned and filled and any ordinary bottle or fruit jar can be used with them. No bottles or cans are included with fountains. Price, only 25c each. Mailing weight, 1 lb.



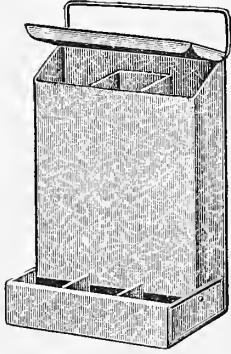
Excelsior Dry Feed Hopper.

Dry feeding has become very popular.

It has proved to be a satisfactory, economical and labor saving method of feeding poultry. Hopper is well made of heavy galvanized iron, has a hinged lid and being made of metal affords freedom from dampness and mold. For dry feeding both hard grain mixtures and dry mash, this hopper is superior. Has two compartments, one for dry mash or mixed grain holding about 6 qts., the other for grain or beef scraps, holding about 3 quarts. Top of box has a sharp pitch or angle, so birds cannot roost on it and the front of box is straight up and down so the dry mash does not clog. Price, each, 75c.

Excelsior Grit and Shell Box.

No poultryman can really afford to be without this handy labor saving device. This box or hopper is well made of heavy galvanized iron. It has three compartments, and may be used for feeding grit, oyster shell and charcoal; or grit, shell and granulated bone. It feeds automatically and prevents waste. With this self-feeding box hung up on the side walls of the pen, the birds can help themselves at all times and the supply is kept clean. Price, each, 50c.



Opal Nest Egg. Clear white, flint nest eggs, will last a lifetime. Each, 3c; doz., 30c, postpaid.

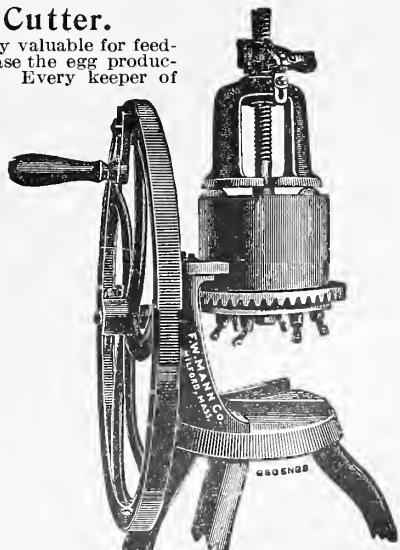
Lime Nest Egg. Made of lime and covered with paraffine. Practically unbreakable and do not get cold in Winter like other nest eggs. Each, 3c; doz., 30c. If sent by mail, add 2c each for postage.

Sterlingworth Sulphur Candles. These candles have a large, round wick in the center, which stays lighted until every particle of sulphur is consumed. The candle weighs seven ounces; safe to use and easy to light. They produce a deadly vapor fatal to insect life and disease germs. This candle will thoroughly fumigate a room 12 by 15 feet. By express or freight each, 12c. Mailing weight, 7 oz.

Mann's Bone Cutter.

Fresh ground bones are very valuable for feeding laying hens and will increase the egg production to a remarkable degree. Every keeper of

poultry should have a bone cutter of his own. Mann's Green Bone Cutter has been on the market for several years and is without question the best manufactured. The new model No. 7 Cutter is an improvement over other patterns, having an open hopper which facilitates cleaning the machine. This size is the easiest running hand power machine and can be adjusted to cut as desired. Price, complete with iron stand and balance wheel, F. O. B. Minneapolis, \$12.00.



Wire Nests.

These nests are strongly made from heavy Japanned steel wire and will last a lifetime. They are far superior to boxes, will not harbor lice and are always clean. Each, 15c; doz., \$1.50.



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NORTHRUP, KING & CO.,
SEEDSMEN,
HENNEPIN AVE. AT FIRST ST.,
MINNEAPOLIS,
MINN.



**IT IS
OUR TRADE MARK**

And means that the seed
sold under that brand is the **Best Obtainable** anywhere
at any price

OUR "STERLING BRAND" SEEDS ARE SOLD ONLY
IN SEALED BAGS

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SEEDSMEN,**

Hennepin Ave. at First St., **MINNEAPOLIS, MINN.**

NORTHRUP,
KING & CO.'S

RED FIGURE

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Northrup, King & Co. do not give, and their agents and employees are forbidden to give any warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned and money paid for same will be promptly refunded.

Please note that there is an extra charge for bags except where noted otherwise. In remitting, please be sure to include sufficient to cover cost of bags, as this will help to avoid correspondence and possible delay.

CLOVERS.

Bags extra at 30c each. 150 lbs. per bag.	
60 lbs. to the bushel. Lbs.	
Medium Red Clover — per acre.	Bu. 100 lbs.
Sterling Brand.....	8 \$12.80 \$21.20.
Northland Brand.....	8 12.00 19.80
Viking Brand.....	9 11.50 19.00
Prime.....	10 11.00 18.13
Mammoth Red Clover —	
Sterling Brand.....	8 13.15 21.75
Northland Brand.....	8 12.30 20.35
Viking Brand.....	9 11.85 19.55
Alsike Clover —	
Sterling Brand.....	8 14.65 24.20
Northland Brand.....	8 13.15 21.75
Viking Brand.....	8 11.85 19.55
Prime.....	10 11.00 18.13
White Clover —	
Sterling Brand..... per lb. 60c	7 30.45 50.60
Northland Brand..... per lb. 50c	8 27.85 46.20
Sweet Clover —	
White Blossom.....	15 10.65 17.00
Yellow Blossom.....	20 10.35 17.05
Crimson or Scarlet Clover.....	15 15.40
Sainfoin or Esparcette.....	15 15.40

ALSIKE AND TIMOTHY MIXED.

Northland Brand..... 15 10.90

ALFALFA.

Bags extra, at 30c each. 60 lbs. to the bushel.	
150 lbs. per bag. Lbs. per acre Bu. 100 lbs.	
Montana Grown, Sterling Brand.....	10 15.30 25.30
Montana Grown, Northland Brand.....	12 13.65 22.55
Montana Grown, Viking Brand.....	12 12.80 21.20
Dakota Grown, Northland Brand.....	12 12.30 20.35
American Grown, Sterling Brand.....	10 11.30 18.60
American Grown, Northland Brand.....	12 10.60 17.50
American Grown, Viking Brand.....	12 9.95 16.40
Dry Land Alfalfa.....	10 14.65 28.60
Turkestan Alfalfa.....	12 10.20 16.80
Liscom Alfalfa.....	10 17.95 29.70
Grimm Alfalfa.....	12 36.50 60.00

NITRAGIN.

Bacteria Culture for inoculating Alfalfa, Clover and all other legumes. State the crop to be inoculated, when ordering. Price, $\frac{1}{2}$ acre size can, 50c; acre size can, \$1.00; 5-acre size can, \$4.00, postage and express extra. Parcel Post, 10c per acre.

TIMOTHY.

Bags extra, at 30c each. 45 lbs. to the bushel.	
Lbs. per acre Bu. 100 lbs.	
Sterling Brand.....	10 3.65 7.95
Northland Brand.....	10 3.10 6.60
Viking Brand.....	12 2.95 6.25
Prime.....	13 2.65 5.63

BLUE GRASS.

14 lbs. to the bushel. Bags free.	
Kentucky, Sterling Brand, solid seed.....	20 2.90 19.80
Kentucky, Northland Brand, solid seed.....	24 2.35 15.90
Kentucky, Viking Brand, solid seed.....	24 2.30 15.30
Canadian Blue Grass.....	28 1.95 13.25
English Blue Grass or Meadow Fescue.....	24 1.95 13.25

RED FIGURE

SUPPLEMENTS AND SUPERSEDES PRICES IN OUR 33RD ANNUAL CATALOGUE AND

Three Relia



"STERLING BRAND" SEEDS.

For those who want the best. Unexcelled for purity, germination, plumpness and color. Sold only in sealed bags. LOOK FOR THE STERLING TRADE-MARK.



ior quality, careful purity and strong NORTHLAND GO

BROMUS INERMIS.

Bags free.	
14 lbs. to the bushel. Lbs. per acre Bu. 100 lbs.	
Sterling Brand.....	20 \$ \$
Northland Brand.....	20 2.00 13.50
Viking Brand.....	20 1.80 12.10

RED TOP (SOLID SEED.)

Solid Seed Red Top is by all means the most economical to use. 14 lbs. to the bushel. Bags, 30c each.

Sterling Brand.....	10 2.40 16.50
Northland Brand.....	11 2.05 13.50
Viking Brand.....	12 2.00 13.20

ORCHARD GRASS.

14 lbs. to the bushel. Bags free.

Northland Brand.....	28 3.30 22.80
----------------------	---------------

GRASS SEED SOWERS.

Sterling Broadcast Seeder, each.....	\$1.50
Cahoon Seeder, each.....	3.50
Little Wonder.....	1.00
Thompson Wheelbarrow Seeders	\$7.00 to \$10.00

LAWN GRASS.

N. K. & Co.'s Sterling Mixture, 25 lbs., \$6.75. 50 lbs., \$13.00; 100 lbs., \$25.00.	
N. K. & Co.'s Shady Place Mixture, 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00.	
N. K. & Co.'s Terrace Mixture, 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00.	
Lawn Restoring Grass Seed, 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00.	
Fair Green Mixture, 25 lbs., \$6.75; 50 lbs., \$13.00; 100 lbs., \$25.00.	
Putting Green Grass Seed, 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00.	

MISCELLANEOUS GRASS SEEDS.	
14 lbs. to the bushel. Bags free.	
Bu. 100 lbs.	
Perennial or English Rye.....	28 1.30 8.40
Italian Rye Grass.....	28 1.50 9.90
Hard Fescue.....	30 4.30 30.00
Red or Creeping Fescue.....	30 4.55 31.80
Western Rye Grass.....	15 1.70 11.40
Tall Fescue.....	30 6.25 43.70

GARDEN AND LAWN DRESSING.

N. K. & Co.'s Sterling Garden and Lawn Fertilizer, 5 lbs.....	30c 10 lbs..... \$0.50. 25 lbs..... \$1.00.
50 lbs..... \$1.75. 100 lbs..... \$3.00.	

N. K. & Co.'s Steamed Bone Meal, 25 lbs., 75c; 100 lbs., \$2.50; 500 lbs., \$11.25.

FERTILIZERS.

Pulverized Sheep Manure. A first class fertilizer for general use.

Per 100 lbs..... \$1.75

Per 1000 lbs..... \$15.00

Cattle Manure, per bag, \$1.50; 5 bags, \$6.25.

ONION SETS.

Prices subject to market changes. A standard bushel of bottom sets weighs 32 lbs.

25 lbs. 50 lbs. 100 lbs.

White Bottom..... 5.25 10.00 18.00

Red Bottom..... 5.00 9.00 16.00

Yellow Bottom..... 5.00 9.00 16.00

Yellow Multiplier..... 5.00 9.00 16.00

Red Top (Genuine.)..... Per lb., 35c

White Multiplier..... Per lb., 35c

PEAS FOR PASTURE AND FEEDING

On account of the scarcity and high prices of all varieties of Field Peas, we offer as a substitute long vined, sweet, wrinkled Marrow Peas. These varieties bear pods in great profusion, excellent for green fodder or forage. May be sown alone or in combination with grain, etc. Especially valuable for pigs. While they last—

Per bushel of 56 lbs..... \$3.50

GARLIC.

Prices subject to market changes.

Garlic, per lb..... \$.35

SEED POTATOES.

Strictly first class, hand picked stock. Prices subject to market changes.

60 lbs. to the bushel. Bu.

Burbank..... 2.75

Carman..... 2.75

Extra Early Ohio..... 2.75

Early Triumph..... 3.00

Early White Albino..... 3.00

Irish Cobbler..... 2.75

Pingree..... 2.75

Rose..... 2.75

Rural New Yorker..... 2.70

The above prices include bags. If shipped in barrels the price is 10c per bushel more; if in barrels add 15c per bushel.

MILLETS.

Show 36 lbs. per acre. Bags, 30c each.

48 lbs. to the bushel. Bu. 100 lbs.

German, Sterling Brand..... 2.25 4.50

“ Northland Brand..... 2.00 3.90

“ Viking Brand..... 1.95 3.80

Common, Sterling Brand.....

“ Northland Brand..... 1.70 3.30

Broom Corn or Hog, Northland Brand..... 2.10 4.20

Early Fortune, Northland Brand..... 2.10 4.20

Siberian, Sterling Brand..... 2.55 5.1

“ Northland Brand..... 2.25 4.50

Kursk..... 2.10 4.20

Japanese..... 2.15 4.20

Hungarian, Northland..... 3.00 6.00

MISCELLANEOUS.

Bu. 100 lbs.

Cow Peas, Northern Grown. Bags, 30c each

Cow Peas, Southern Grown. Bags, 30c each

Feterita. Bags, 30c each

Field Peas, Canada Green. Bags, 30c each

Field Peas, Canadian Yellow. Bags, 30c each

Field Peas, Golden Vine. Bags, 30c each

Field Peas, Scotch. Bags, 30c each

Kafir Corn for Seed. Bags, 30c each

Kafir Corn for Seed. Per lb., 25c. Bags, 15c each

Sorghum, Minnesota or Amber Cane. Bags, 30c each

Sorghum, Southern Amber Cane for Fodder. Bags, 30c each

Sorghum, Schrock Kafir. Bags, 30c each

Soy or Soja Beans, Northern Grown. Bags, 30c each

Soy or Soja Beans, Southern Grown. Bags, 30c each

Sudan Grass. Per lb., 55c; 10 lbs., \$5.00.

Sunflower, Mammoth Russian. Bags, 15c each

Vetches, Spring. Bags, 30c each

Vetches, Winter or Hairy. Bags, 30c each

each..... 17

Prices given are those prevailing at the time this list is printed. Values usually

PRICE LIST

Hennepin Ave. at First St.
MINNEAPOLIS, MINNESOTA.

IN PREVIOUS LISTS ON ALL GRASS AND FIELD SEEDS AND POULTRY FEEDS.

ale Brands

"NORTH-
LAND
BRAND"
SEEDS.

The greatest
value for a
reasonable
price, of uni-
formly super-
selected for high
maturity. The
is on every bag.



"VIKING
BRAND"
SEEDS.
Lowest in price,
consistent with de-
pendable quality.
Strictly recleaned
and tested for
purity and germi-
nation. EVERY BAG BRANDED
WITH THE VIKING SHIP.

HOG PASTURE MIXTURE.

	100 lbs.
K. & Co.'s Annual	5.00
Permanent	16.50

SEED GRAIN.

	60 lbs. to the bushel.		
	2½ bu.	10 bu.	
Spring Wheat			
lgs. 30c each.	Bu.	lots.	lots.
Northland Brand Red Fife	\$2.65	\$2.55	\$2.50
Velvet Chaff	2.65	2.55	2.50
Macaroni	2.70	2.65	2.60
Marquis	2.70	2.60	2.55
Minnesota No. 163 Fife			
N. K. & Co.'s Northland Brand	2.65	2.55	2.50
use Stem	2.65	2.55	2.50
No. 1 Spring	2.65	2.55	2.50
Sinter Wheat			
80 lbs. to the bushel.			
Minnesota Reliable	2.75	2.65	2.60
Turkey Red	2.75	2.65	2.60
Sacks—			
Sacks, each 15c extra.			
N. K. & Co.'s Lincoln	1.20	1.10	1.05
Lincoln Oats, Reg. U. S. Pat. Off.			
Silver Mine	1.05	.95	.90
Kherson	1.05	.95	.90
Montana Wonder	1.20	1.10	1.05
Sixty Day	1.10	1.00	.95
Banner	1.05	.95	.90
Swedish	1.10	1.00	.95
Regenerated Swedish	1.25	1.15	1.10
Big Four	1.15	1.05	1.00
Improved White Russian	1.20	1.10	1.05
Abundance, Canadian Grown	1.40	1.30	1.25
N. K. & Co.'s Northland Brand	1.15	1.05	1.00
Minnesota No. 281	1.35	1.25	1.20
Minnesota No. 295	1.35	1.25	1.20
Scottish Chief	1.10	1.00	.95
Speltz—			
Bags, 15c each.			
40 lbs. to the bushel.			
Speltz, or Emmer	1.25	1.15	1.10
Barley—			
Bags, 30c each.			
48 lbs. to the bushel.			
Manshury	1.80	1.70	1.65
Oderbrucker	1.80	1.70	1.65
N. K. & Co.'s Northland Brand	1.75	1.65	1.60
Improved White Hulless	2.15	1.95	1.90
Minnesota No. 105	1.80	1.70	1.65
Chevalier			
Highland Chief			
Buckwheat—			
50 lbs. to the bushel			
Bags, 30c each.			
Silver Hull	2.05	1.95	1.90
Japanese	2.05	1.95	1.90
Rye—			
56 lbs. to the bushel.			
Bags, 30c each.			
Spring	2.25	2.15	2.10
N. K. & Co.'s Amber Winter	1.90	1.80	1.75
Minnesota No. 2 Winter	2.10	2.00	1.95
Flax—			
56 lbs. to the bushel.			
Bags, 30c each.			
Minnesota No. 25 or Primost			
N. K. & Co.'s Northland Brand	3.85	3.75	3.70
N. D. No. 52, Wilt Resistant			

THE CLIPPER MILL.

We are Northwestern agents for this celebrated
Mill, the best "Seed Cleaner" made.

Net

No. 1B. 12 screens, f. o. b. Minneapolis.....\$25.00
No. 2B. 12 screens, f. o. b. Minneapolis.....35.00

Send for Descriptive Leaflet.

PLANET JR. TOOLS. Send for
Catalogue.

PLEASE NOTE!

On account of the fluctuating prices on Grass and Field Seeds it has been impossible for us to print values on some items in our 33rd Annual Catalogue, especially on clover and millet. Owing to the large edition of catalogues we send out, we are obliged to begin printing several weeks before they are mailed. On some seeds, values have necessarily changed, all prices printed in our catalogue being those in effect at the time of publication. Prices in this list, therefore, are those existing on the date hereon and cancel all prices given in our catalogue on the same items. Quality considered prices are as low as can possibly be made and are subject to market changes. So we reserve the right to forward seed to the value of the money sent us, according as the market is higher or lower. These prices include free delivery to any railroad station in Minneapolis. If Grass or Clover Seeds are wanted by mail add for postage at parcel post rates. Please note that the BUSHEL price is higher than the 100 lb. rate; this is to cover the extra expense of putting up small packages. In ordering always state brand wanted. Should our prices in any instance appear high, please send for samples and examine quality.

In the event of our being out of the particular Brands wanted, shall we substitute the next best at market prices?

JANUARY 19, 1917

N. K. & Co.'s Sterling Chick Feed.

For chicks three weeks old and up.

100-lb. sack 2.90

50-lb. sack 1.50

25-lb. sack80

N. K. & Co.'s Sterling Chick Feed Without Grit

100 lb. sack 2.95

50 lb. sack 1.55

25 lb. sack85

N. K. & Co.'s Sterling Hen Feed.

100-lb. sack 2.75

50-lb. sack 1.40

N. K. & Co.'s Sterling Hen Feed. Without Grit.

100-lb. sack 2.80

N. K. & Co.'s Sterling Scratch Feed.

100-lb. bags 2.70

N. K. & Co.'s Sterling Scratch Feed. Without Grit.

100-lb. bags 2.75

N. K. & Co.'s Sterling Poultry Mash.

100 lbs. 2.50

50 lbs. 1.30

N. K. & Co.'s Sterling Pigeon Feed.

50 lbs. 2.00

100 lbs. 4.20

All Grain Chick Feed.

100-lb. bags only 2.95

All Grain Hen Feed.

100-lb. bags only 2.80

N. K. & Co.'s Sterling Egg Starter.

2 lb. carton25

5 lb. carton50

25 lb. pail 1.45

MISCELLANEOUS.

Per 100 lbs. N. K. & Co.'s Sterling Granulated Bone, fine, medium or coarse 3.40

N. K. & Co.'s Sterling Meat Scraps 3.70

Meat Meal 3.25

Charcoal 1.75

Alfalfa Meal 1.90

Crushed Oyster Shell, fine or coarse80

Crushed Clam Shell60

Mica Crystal Grit, fine or coarse65

Oil Meal 2.95

Diamond Gluten Meal 3.05

Douglas Gluten Feed 2.70

Digester Tankage, (60 per cent protein) 3.55

Cottonseed Meal 3.05

Blood Meal 4.40

Ground Flax—with oil 8.00

Conkey's Buttermilk Starting Food, 3 lbs., 25c; 6½ lbs., 50c 7.00

UNMIXED FEED GRAIN.

Steel Cut Oat Meal 5.20

No. 1 Fancy Wheat 3.65

No. 1 Fancy Wheat, Cracked 3.70

Feed Corn, Yellow 2.30

Cracked Corn, Yellow 2.35

Kaffir Corn 3.30

Cracked Kaffir Corn 3.35

Broom Corn Millet 3.50

Corn, White, Whole 2.30

Corn, White, Cracked 2.35

Sunflower, large seeded 5.90

Pigeon Peas, choice yellow 5.05

Feed Barley 2.75

Feed Millet 3.35

Hulled Speltz for feed 2.45

BLATCHFORD'S FEEDS.

Calf Meal, 25 lb. bag, \$1.10; 50 lb. bag, \$2.00;

100 lbs. 3.75

Pig Meal 3.75

Milk Mash for Poultry 3.65

advance during the season. It will be to your interest to place your orders early.

SUPPLEMENTS AND SUPERSEDES PRICES IN OUR 33RD ANNUAL CATALOGUE AND ON PREVIOUS LISTS ON ALL GRASS AND FIELD SEEDS AND POULTRY FEEDS.

DISCLAIMER. Northrup, King & Co. do not give, and their agents and employees are forbidden to give any warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned and money paid for same will be promptly refunded.

Please note that there is an extra charge for bags except where noted otherwise. In remitting, please be sure to include sufficient to cover cost of bags, as this will help to avoid correspondence and possible delay.

CLOVERS.

Bags extra at 30c each. 150 lbs. per bag.
60 lbs. to the bushel. Lbs.

Medium Red Clover— per acre. Bu. 100 lbs.
Sterling Brand \$5 12.80 \$2 1.20
Northland Brand 20 2.00 13.50
Viking Brand 20 1.80 12.10
Prime 10 11.00 18.15

Mammoth Red Clover— per acre. Bu. 100 lbs.

Sterling Brand 8 13.15 21.75
Northland Brand 8 12.30 20.35
Viking Brand 9 11.85 19.55

Alsike Clover— per acre. Bu. 100 lbs.

Sterling Brand 8 14.65 24.20
Northland Brand 8 13.15 21.75
Viking Brand 8 11.85 19.55
Prime 10 11.00 18.15

White Clover— per acre. Bu. 100 lbs.

Sterling Brand 7 30.45 50.60
Northland Brand 8 27.85 46.20

Sweet Clover— per acre. Bu. 100 lbs.

White Blossom 15 10.65 17.00
Yellow Blossom 20 10.35 17.05
Crimson or Scarlet Clover 15 15.40
Solomon or Esparcette 15.40

ALSIKE AND TIMOTHY MIXED.

Northland Brand 15 10.00

ALFALFA.

Bags extra at 30c each. 80 lbs. to the bushel. Lbs. per acre. Bu. 100 lbs.

Montana Grown, Sterling Brand 10 15.30 25.00
Montana Grown, Northland Brand 12 13.65 22.55
Montana Grown, Viking Brand 12 12.80 21.20
Dakota Grown, Northland Brand 12 13.30 20.35
American Grown, Sterling Brand 10 13.30 18.60

American Grown, Northland Brand 12 19.00 17.50

American Grown, Viking Brand 12 9.95 16.40

Dry Land Alfalfa 10 14.65 28.60

Turkestan Alfalfa 12 10.20 16.80

Lisbon Alfalfa 10 17.95 20.70

Grimm Alfalfa 10 36.50 60.00

NITRAGIN.

Bacterium Culture for inoculating Alfalfa, Clover and all other legumes. State the crop to be inoculated, when ordering. Price, 35c acre size can, 60c acre size can, \$1.00; 6-acre size can, \$4.00, postage and express extra. Parcel Post, 10c per acre.

TIMOTHY.

Bags extra at 30c each. 45 lbs. to the bushel. Lbs. per acre. Bu. 100 lbs.

Sterling Brand 10 3.65 7.95
Northland Brand 10 3.10 6.60
Viking Brand 12 2.95 6.25
Prime 13 2.65 5.65

BLUE GRASS.

14 lbs. to the bushel. Bags free.

Kentucky, Sterling Brand, solid seed 20 2.90 19.80
Kentucky, Northland Brand, solid seed 24 2.35 15.90

Kentucky, Viking Brand, solid seed 24 2.30 15.30

Canadian Blue Grass or Meadow Fescue 28 1.95 13.25

English Blue Grass or Meadow Fescue 24 1.95 13.25

BROMUS INERMIS.

Bags free.
14 lbs. to the bushel. Lbs. per acre. Bu. 100 lbs.
Sterling Brand 20 \$ \$
Northland Brand 20 2.00 13.50
Viking Brand 20 1.80 12.10

RED TOP (SOLID SEED.)

Solid Seed Red Top is by all means the most economical to use. 14 lbs. to the bushel. Bags. 20c each.
Sterling Brand 10 2.40 16.50
Northland Brand 11 2.05 13.50
Viking Brand 12 2.00 13.20

ORCHARD GRASS.

14 lbs. to the bushel. Bags free.
Northland Brand 28 3.30 22.80

GRASS SEEDED SOWERS.

Sterling Broadcast Seeder, each \$1.50
Cahoon Seeder, each 3.50
Little Wonder 1.00
Thompson Wheelbarrow Seeders \$7.00 to \$10.00

LAWN GRASS.

N. K. & Co.'s Sterling Mixture, 25 lbs., \$6.75. 50 lbs., \$13.00; 100 lbs., \$25.00.
N. K. & Co.'s Shady Place Mixture, 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00.
N. K. & Co.'s Terrace Mixture, 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00.
Lawn Restoring Grass Seed, 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00.
Fair Green Mixture, 25 lbs., 30.75; 50 lbs., \$13.00; 100 lbs., \$25.00.
Pulling Green Grass Seed, 25 lbs., \$8.00; 50 lbs., \$15.50; 100 lbs., \$30.00.

MISCELLANEOUS GRASS SEEDS.

14 lbs. to the bushel. Bags free.
Perennial or English Rye Bu. 100 lbs.
Hallan Rye Grass 28 1.50 9.00
Hard Fescue 30 4.30 30.00
Red or Creeping Fescue 30 4.55 31.80
Western Rye Grass 15 1.70 11.40
Tall Fescue 30 6.25 43.70

GARDEN AND LAWN DRESSING.

N. K. & Co.'s Sterling Garden and Lawn Fertilizer, 6 lbs. 30c 10 lbs. 50c 25 lbs. \$1.00
60 lbs. \$1.75 100 lbs. \$3.00
N. K. & Co.'s Steamed Bone Meal, 25 lbs. 75c 100 lbs. \$2.50 500 lbs. \$11.25

FERTILIZERS.

Pulverized Sheep Manure. A first class fertilizer for general use.
Per 100 lbs. \$1.75
Per 1000 lbs. 15.00
Cattle Manure, per bag, \$1.50; 5 bags, \$6.25.

ONION SETS.

Prices subject to market changes. A standard bushel of onion sets weighs 32 lbs.
White Bottom 25 lbs. 60 lbs. 100 lbs.
Red Bottom 5.00 9.00 16.00
Sudan Grass, per lb., 6c; 10 lbs., 45.00
Yellow Bottom 5.00 9.00 16.00
Yellow Multiplier 5.00 9.00 16.00
Red Top (Genuine) Per lb., 35c
White Multiplier Per lb., 35c

Three Reliable Brands**"STERLING BRAND" SEEDS.**

For those who want the best. Unexcelled for purity, germination, plumpness and color. Sold only in sealed bags. LOOK FOR THE STERLING TRADE-MARK.

**"NORTHLAND BRAND" SEEDS.**

The greatest value for a reasonable price, of uniformly superior quality, carefully selected for high purity and strong germination. The NORTHLAND GOOSE is on every bag.

**"VIKING BRAND" SEEDS.**

Lowest in price, consistent with dependable quality. Strictly re-cleaned and tested for purity and germination. EVERY BAG BRANDED WITH THE VIKING SHIP.

PLEASE NOTE!

On account of the fluctuating prices on Grass and Field Seeds it has been impossible for us to print values on some items in our 33rd Annual Catalogue, especially on clover and millet. Owing to the large edition of catalogues before they are mailed, we are obliged to begin printing several weeks earlier than the date of publication. Prices in this list, therefore, are those existing on the date herein and cancel all prices given in our catalogue on the same items. Quality considered prices are as low as can possibly be made and are subject to market changes. So we reserve the right to forward seed to the value of the money sent us, according as the market is higher or lower. These prices include free delivery to any railroad station in Minneapolis. If Grass or Clover Seeds are wanted by mail add for postage at parcel post rates. Please note that the BUSHEL price is higher than the 100 lb. rate; this is to cover the extra expense of putting up small packages. In ordering always state brand wanted. Should our prices in any instance appear high, please send for samples and examine quality.

In the event of our being out of the particular brands wanted, shall we substitute the next best at market prices?

JANUARY 19, 1917

SEED CDRN.

Bags are extra at 30c each. Bags contain 2 1/2 bu. each.

Varieties for \$3.00 a bu. 60c extra a pk., \$3.50. 100 lbs. 3.00
\$4.00 16.50

Per Bu. \$4.50

Minnesota Grown Early Northwestern Dent

Minnesota Grown Early Yellow Dent

Minnesota Grown Early White Dent

Minnesota Grown Minnesota Ideal

Minnesota Grown Longfellow Early Yellow Dent

Minnesota Grown Prid of the North

Minnesota Grown Rusler White Dent

Minnesota Grown Gold Medal Yellow Dent

Minnesota Grown White Cap Yellow Dent

Minnesota Grown North Dakota Golden Dent

Minnesota Grown Early Murdock

Minnesota Grown Armstrong Yellow Dent

Minnesota Grown Wisconsin No. 7

Minnesota Grown Silver King

N. K. & Co.'s Dakota Dent, Mian. Grown

North Dakota Grown Squaw Flint

North Dakota Grown White Flint

North Dakota Grown Yellow Flint

North Dakota Grown Longfellow Flint

Minnesota Grown Mercer Flint

Minnesota Grown Triumph Flint

Minnesota Grown Small Nose Flint

South Dakota Grown Early Yellow Dent

South Dakota Grown Early White Dent

N. K. & Co.'s Sterling Chick Feed.

For chicks three weeks old and up.

100-lb. sack 2.90
60-lb. sack 1.90

25-lb. sack 1.80

N. K. & Co.'s Sterling Chick Feed

Without Oil, 2.95

With Oil, 1.85

N. K. & Co.'s Sterling Hen Feed

Without Oil, 3.75

With Oil, 1.40

N. K. & Co.'s Sterling Hen Feed

Without Oil, 2.80

With Oil, 1.40

N. K. & Co.'s Sterling Scratch Feed

100-lb. bags 2.70

N. K. & Co.'s Sterling Scratch Feed

Without Oil, 2.75

N. K. & Co.'s Sterling Poultry Mash

100-lb. bags 2.50

80-lb. bags 1.39

N. K. & Co.'s Sterling Pigeon Feed

100-lb. bags 2.00

40-lb. bags 1.20

100-lb. bags 2.20

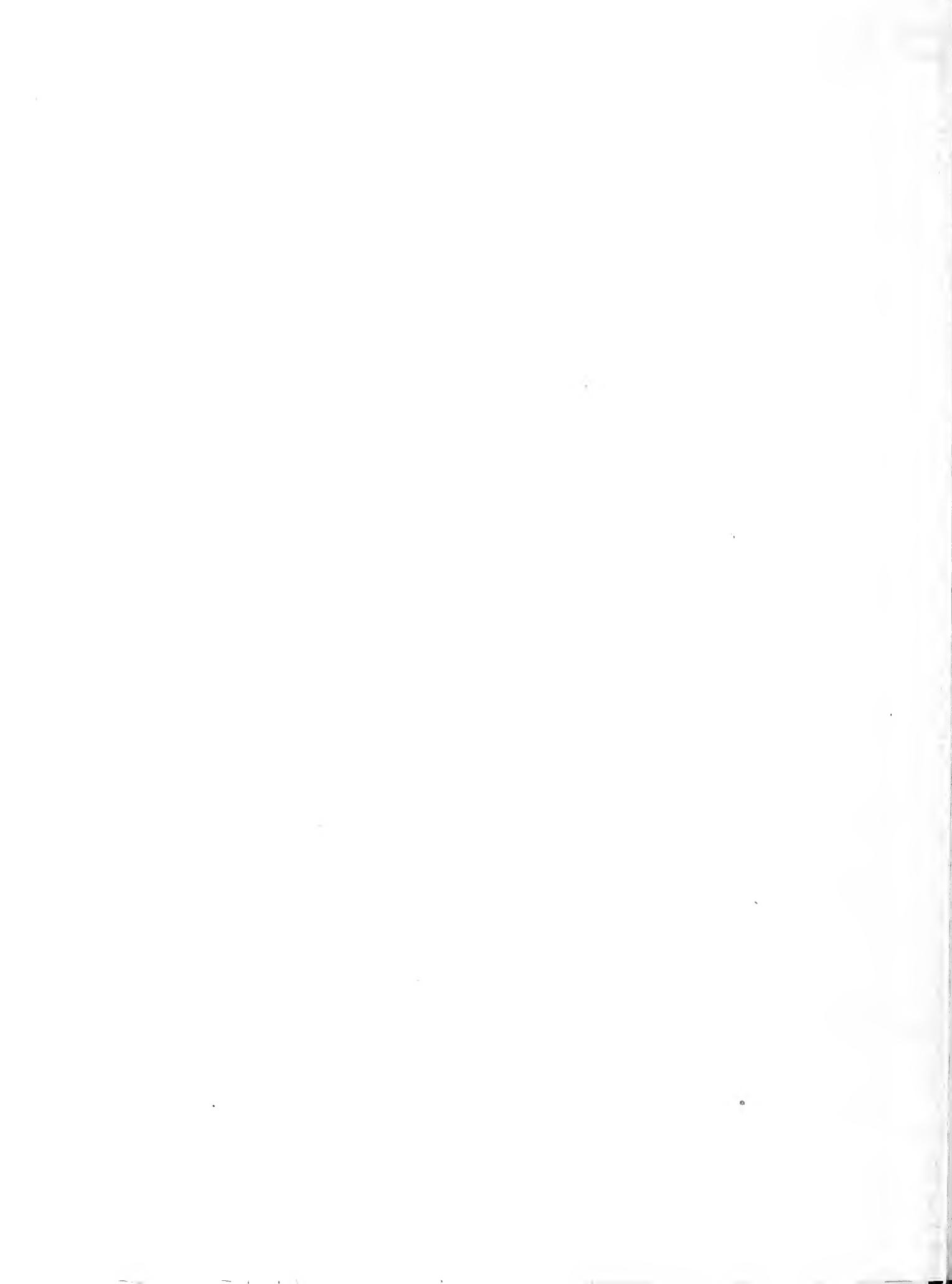
AH Grain Chick Feed

100-lb. bags only 2.95

All Grain Hen Feed

100-lb. bags only 2.80

N. K. & Co.'s Sterling Egg Starter



Northrup, King & Co., Seedsmen, Minneapolis, Minn.



Headquarters For POULTRY FEEDS



Northrup, King & Co.'s Sterling Poultry Feeds are economical to use because they contain only good, clean materials mixed in the proper proportions to make balanced rations for your birds at every age.

Market Conditions Changing.

Everywhere throughout the great Northwest poultry keepers are beginning to realize that market conditions are changing, that the call for poultry and eggs is constantly increasing, but that a higher quality than before is being demanded.

The up-to-date storekeeper candles all eggs before buying them; no longer can he afford to take chances with eggs of doubtful age.

Every town of any size now has its produce company where you can dispose of your birds to be fattened for market.

Modern Methods Essential.

You can profit by these changes and make more money on your flock if you will use modern methods of handling it. This includes careful selection of breeding stock, proper housing and wise feeding. We hear much nowadays about balanced rations, which is merely another name for common-sense feeding, based upon the principle of giving the birds what they need to keep them nourished and lay eggs.

Start Baby Chicks Right.

For baby chicks especially it is important to feed them so they will get a good start and develop rapidly. Also getting eggs in winter is largely a question of proper feeding. Sterling Poultry Feeds are scientifically prepared to meet every need.

Demand For Sterling Poultry Feeds Increasing.

Many years ago we started making Sterling Poultry Feeds, on a small scale at first, but rapidly increasing, until our plant could hardly supply the demand. Last year we installed the most up-to-date equipment to increase our output by several hundred cars.

Our Favorable Location.

Minneapolis is an ideal center for handling Poultry Feeds. Being the great grain market it offers us splendid facilities for procuring the raw materials at the lowest cost, and its many railroads afford quick, economical shipping of the prepared feeds.

We are always at your service to help you solve your Poultry Feeding problems. If you are interested, write for samples and our Red Figure Price List, showing present values of the Poultry Feeds mentioned below.

You Can Rely Upon These Feeds.

See Pages 156-159 for Prices and Complete Descriptions.

Sterling Baby Chick Starter.

A wholesome, ready-prepared starting food which will nourish the chicks so they can make rapid growth. Contains the necessary material to form bone and feathers. To be fed the first three weeks.

Sterling Chick Feed.

This mixture is a splendid combination of seeds, cracked grains, ground bone and fine meat scraps. It gives the chicks quick growth and tends to keep them in good health. For chicks three weeks old and over.

Peep o' Day Chick Meal.

Reg. U. S. Pat. Off.

The ideal food for baby chicks. Should be fed the first three weeks in combination with Sterling Baby Chick Starter. Feeding directions on each package. Put up in a handy 3-lb. carton and also sold in bulk.

Sterling Hen Feed.

A splendid, well balanced feed, composed of a variety of bright, plump grains, oil meal, etc. It supplies the variety which hens need to thrive. Manufactured both with and without grit.

Sterling Scratch Feed.

This is a trifle lower in protein than the Sterling Hen Feed but contains more kinds of grain. It will help your flock "shell out" the eggs. Two mixtures, both with or without grit.

Sterling Poultry Mash.

A high protein mash, containing meat meal, ground bone, middlings, alfalfa meal, oil meal and pure ground grains. It is unexcelled for baby chicks or laying hens. Especially recommended for moulting birds and winter layers.

Sterling Pigeon Feed.

This is composed of field peas, cracked corn, wheat, millet, etc. It is rich in protein and will quickly develop growing squabs. Splendid for homers.

All Grain Chick Feed.

Contains only pure grains, sound and sweet, blended in the proper proportions. For chicks three weeks old and over.

All Grain Hen Feed.

This will be found valuable to use in combination with table scraps, fresh ground bone or some other feed rich in protein.

Star Scratch Feed.

A low priced scratch feed containing a variety of grains, corn, kaffir corn, barley, speltz, etc. Made both with and without grit.

Sterling Egg Starter.

A fine tonic and conditioner for moulting hens, birds just through moulting or any which need a stimulant to start them laying.

Sterling Granulated Bone.

Made from fresh, green bones from which the moisture and grease have been extracted. Very rich in lime and protein.

Sterling Meat Scraps.

These show 50 per cent protein; may be fed either separately or mixed with grains. They are a forcing feed and should be used sparingly.

Sterling Crushed Oyster Shell.

Almost pure carbonate of lime, the material composing egg shells. Sterling Crushed Oyster Shell should be kept constantly before the flock.

THREE RELIABLE BRANDS

FOR FULL DESCRIPTION AND INFORMATION
REGARDING THE THREE RELIABLE BRANDS
SEE PAGE 137.



STERLING BRAND

FOR THOSE WHO WANT THE BEST. UNEXCELLED FOR PURITY, GERMINATION, PLUMPNESS AND COLOR. SOLD ONLY IN SEALED BAGS.

LOOK FOR THE STERLING
TRADE MARK



NORTHLAND BRAND

THE GREATEST VALUE FOR A REASONABLE PRICE
OF UNIFORMLY SUPERIOR QUALITY AND CAREFULLY
SELECTED FOR HIGH PURITY AND STRONG GERMINATION.

THE NORTHLAND GOOSE IS ON EVERY BAG.



VIKING BRAND

LOWEST IN PRICE CONSISTENT WITH DEPENDABLE
QUALITY, STRICTLY RECLEANED AND TESTED FOR
PURITY AND GERMINATION.

EVERY BAG BRANDED WITH THE VIKING SHIP.

NORTHRUP, KING & CO., SEEDSMEN

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